

DRAINAGE PLAN

THIS PROJECT IS PART OF THE APPROVED MASTER DRAINAGE PLAN FOR CLIFFORD WEST BUSINESS PARK (K10-D23) DATED 9-12-97. THE BACKBONE STORM SEWER INFRASTRUCTURE HAS BEEN BUILT AND ACCEPTED BY THE CITY OF ALBUQUERQUE. AN 18" RCP STORM DRAIN STUD OUT IS PROVIDED TO LOT 5, AT THE PROPERTY LINE. THE ALLOWABLE DISCHARGE FROM THIS SITE IS 0.44cfs. THE DEVELOPED FLOW (100 YR.) FROM THIS SITE IS 2.19cfs. THE FLOW WILL BE RESTRICTED TO A MAXIMUM OF 0.44cfs THROUGH AN ORIFICE PLATE ATTACHED TO THE END OF THE 18" RCP AT THE BOTTOM OF DOUBLE "D" INLET. (SEE DETAIL THIS SHEET). THE ONSITE PARKING AREA WILL BE USED TO TEMPORARILY DETAIN THE STORM RUNOFF.

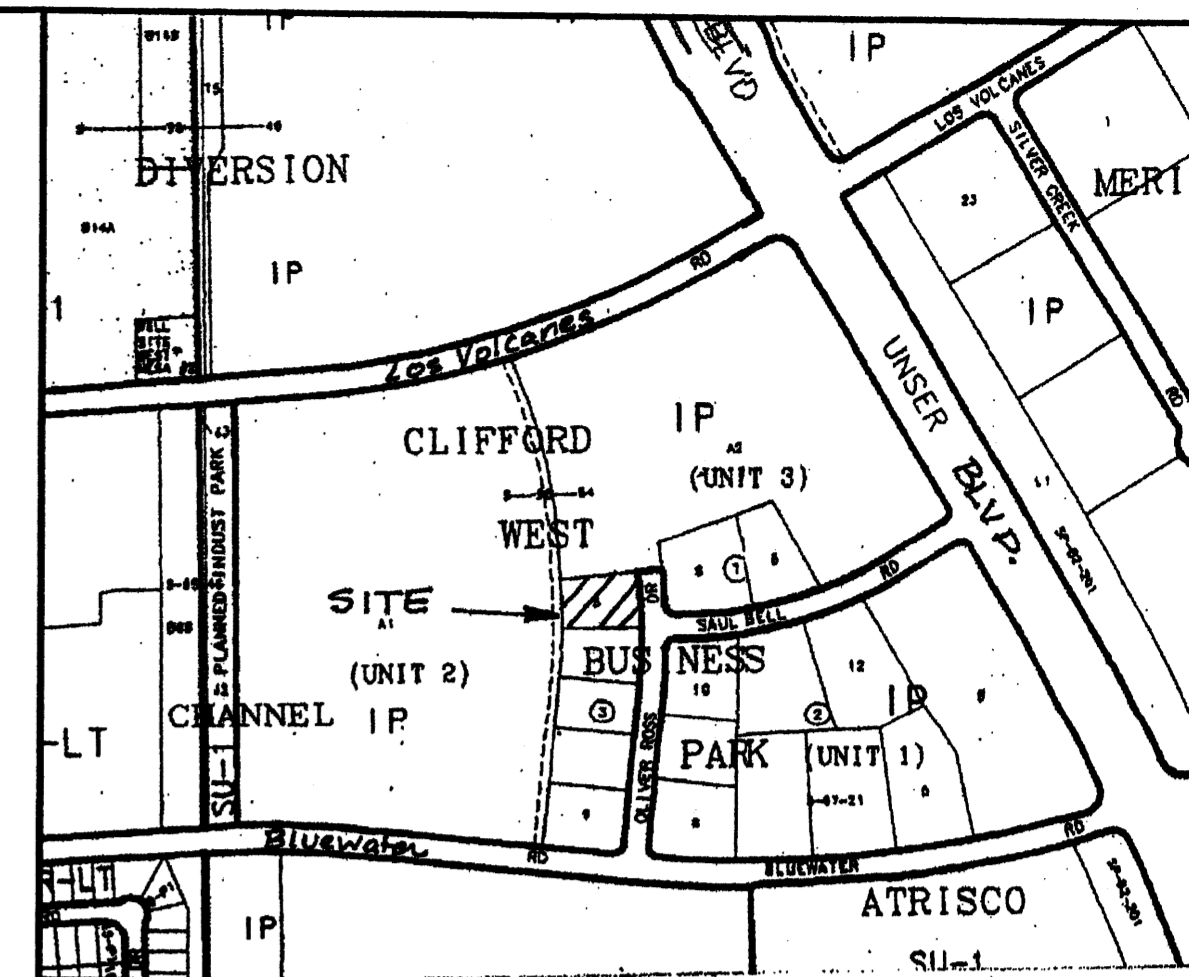
HYDROLOGY SUMMARY (100YR.-6HR. STORM)

P(1 hr) = 1.90"
P(6 hr) = 2.20"

DEVELOPED CONDITIONS:

LAND TREATMENT A = 0, B = 22, C = 0, D = 7B
Q = 2.19cfs V = 0.078 Ac Ft
Q(allowable) = 0.44cfs.

MAXIMUM WATER SURFACE ELEV. (PARKING AREA) = 39.8'
MAXIMUM DISCHARGE THROUGH ORIFICE PLATE = 0.43cfs.



VICINITY MAP ZONE MAP: K-9.10

T B M (TEMPORARY BENCHMARK)

NORTH RIM OF MANHOLE LOCATED AT THE INTERSECTION OF UNSER BOULEVARD AND BLUEWATER ROAD NW
ELEVATION = 5115.73

ACS BENCHMARK

ACS MONUMENT LABELED "9-K10"
ELEVATION = 5114.99

LEGAL DESCRIPTION

LOT 5, BLOCK 3, UNIT 1, CLIFFORD WEST BUSINESS PARK, RECORDED 12-10-97, PAGE 97C, FOLIO 346, BERNALILLO COUNTY, N.M.

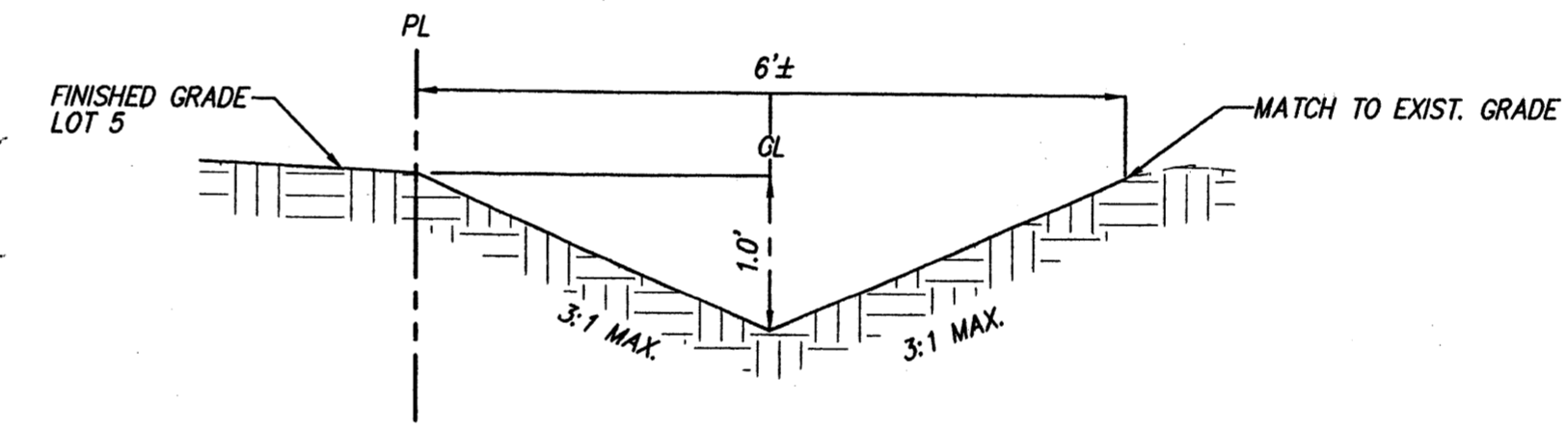
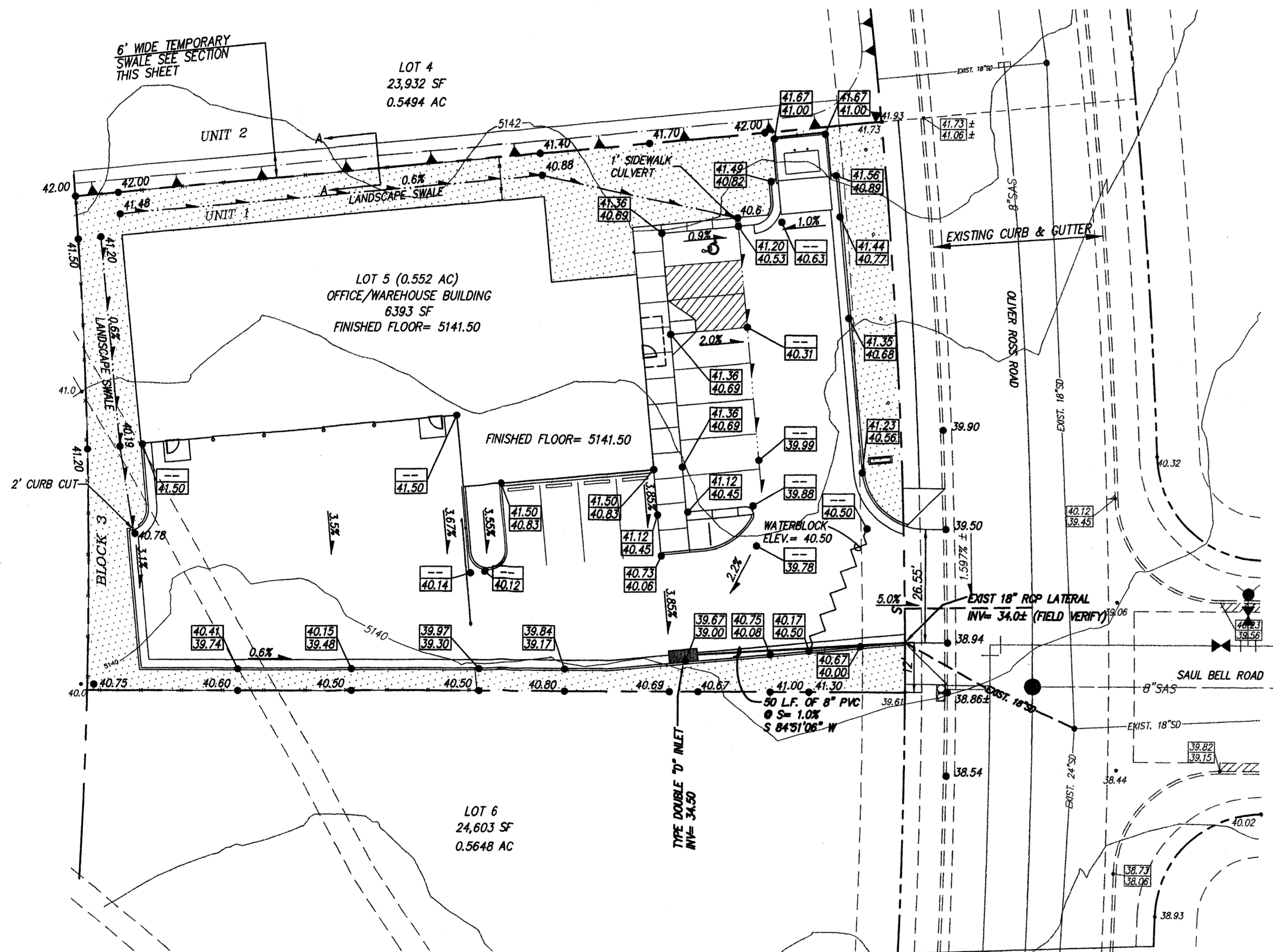
LEGEND

- EXISTING SPOT ELEVATION
- EXISTING CURB
- EXISTING CONTOUR
- EXISTING STORM DRAIN LINE
- EXISTING STANDARD 8" CURB & GUTTER
- EXISTING EASEMENT
- NEW BUILDING
- NEW CURB
- NEW LOT LINE
- NEW EASEMENT
- NEW FENCE
- IMPERVIOUS LANDSCAPE AREA
- PROPOSED TOP OF CURB ELEVATION
PROPOSED FLOWLINE ELEVATION
- PROPOSED SPOT ELEVATION
- LANDSCAPE SWALE
- TEMPORARY SWALE
- LOW POINT
- WATER BLOCK

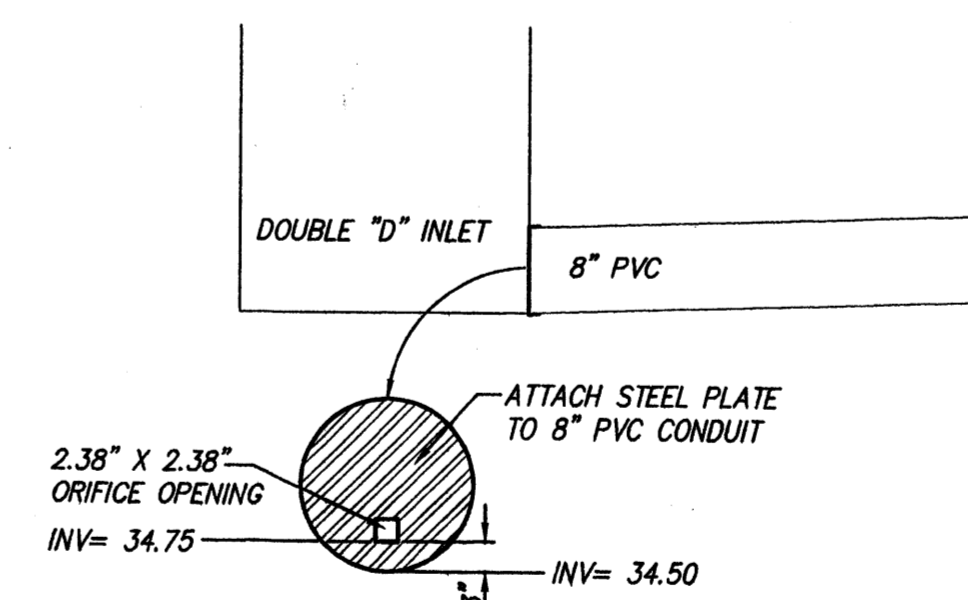
**MEEDER OFFICE WAREHOUSE
GRADING & DRAINAGE/
UTILITY PLAN**

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: DLH Drawn: KJS Checked: DMG Sheet 1 of 1
Scale: 1" = 20' Date: 1/01 Job: A00136



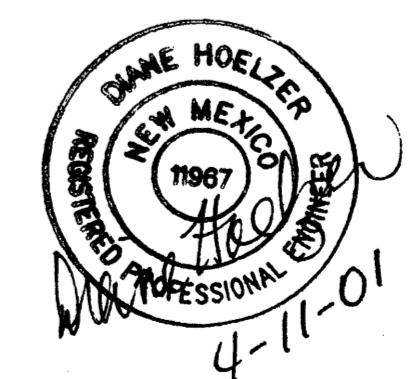
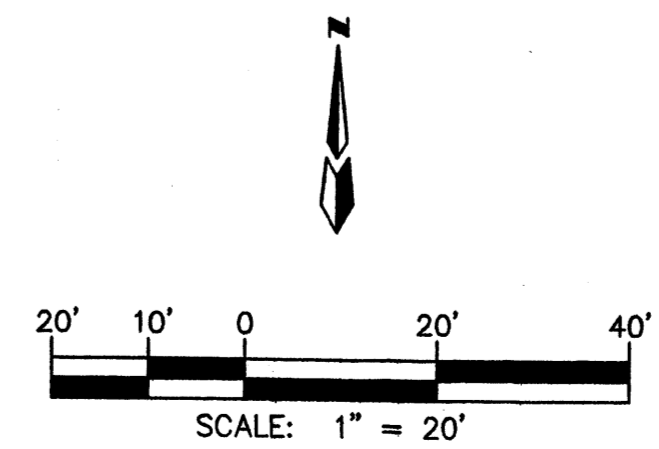
SECTION A-A TEMPORARY SWALE ALONG NORTH PROPERTY LINE
NTS

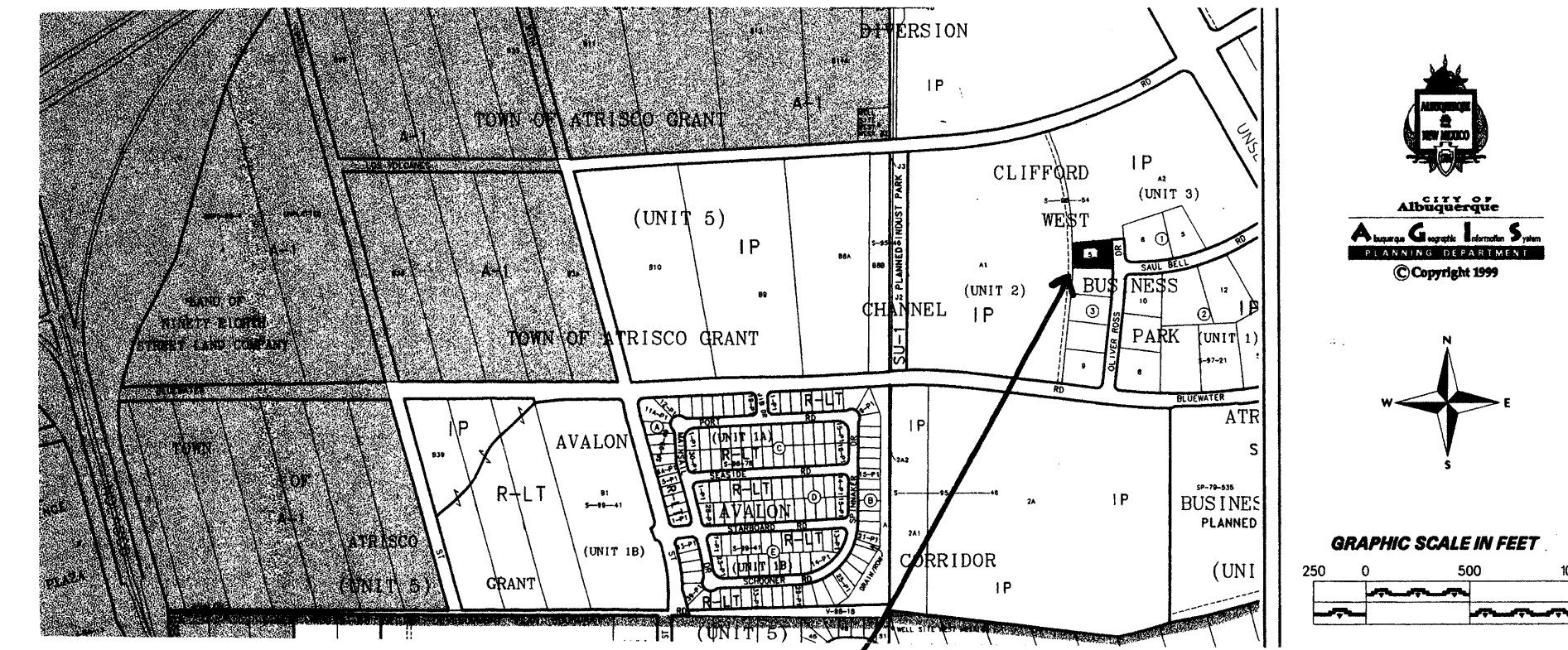


STORM DRAIN ORIFICE DETAIL
NTS

ORIFICE OPENING CALCULATIONS

Orifice Eqn: $Q = (c) \times \text{sq.rt.} (2 \times g \times h)$
Area = (0.44 cfs) - (0.62) x sq.rt. (2 x 32.2 x (40-35))
Area = 0.0395 SF = 0.198' x 0.198' or 2.38 inches





Location Map

SITE DATA

ZONE ATLAS PAGE NO. K-9-Z
 LEGAL DESCRIPTION: CLIFFORD WEST BUSINESS PARK
 UNIT 1, TRACT A-1
 BLOCK 3, LOT 5
 TOWN OF ATRISCO GRANT
 PROJECTED SECTION 21
 TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO

LOT SIZE: 0.552 AC. (24,183 S.F.)
 ZONING: IP

PARKING REQUIREMENTS:
 OFFICE AREA:
 1,309 S.F. = 1,309/200 S.F./SPACE = 6.5 PARKING SPACES

WAREHOUSE AREA:
 4,896 S.F. = 4,896/2,000 S.F./SPACE = 2.4 PARKING SPACES.

TOTAL NO. REQUIRED PARKING SPACES= 10
 TOTAL NO. PARKING SPACES PROVIDED= 11

LANDSCAPE AREA REQUIREMENTS:
 TOTAL SITE AREA: 24,183 S.F.
 BUILDING AREA: 6,390 S.F.
 17,793 S.F.

LANDSCAPE AREA REQUIREMENTS= 17,793 S.F. X 18% = 3,203 S.F.
 TOTAL AMOUNT OF LANDSCAPE AREA PROVIDED = 5,485 S.F.

BICYCLE PARKING REQUIREMENTS:
 NUMBER OF BICYCLE RACK SPACES PROVIDED:
 1 PER 20 PARKING SPACES PROVIDED = 1 SPACE
 TOTAL NO. OF SPACES PROVIDED: 5 SPACES

General Notes

- A. THE DEVELOPMENT DESIGN SHALL BE CONSISTENT WITH ALL RESTRICTIONS SET FORTH IN THE DESIGN GUIDELINES OF THE CLIFFORD WEST BUSINESS PARK MASTER DEVELOPMENT PLAN, CASE NO. 2-97-11, APPROVED 12/9/99.
- B. ALL ROOFTOP EQUIPMENT SHALL BE BELOW PARAPET HEIGHT AND SCREENED FROM VIEW FROM NEARBY PROPERTIES. ALL GROUND MOUNTED EQUIPMENT SHALL BE SCREENED BY SCREEN WALLS WITH TOP OF EQUIPMENT BELOW TOP OF SCREEN WALL.

Keyed Notes

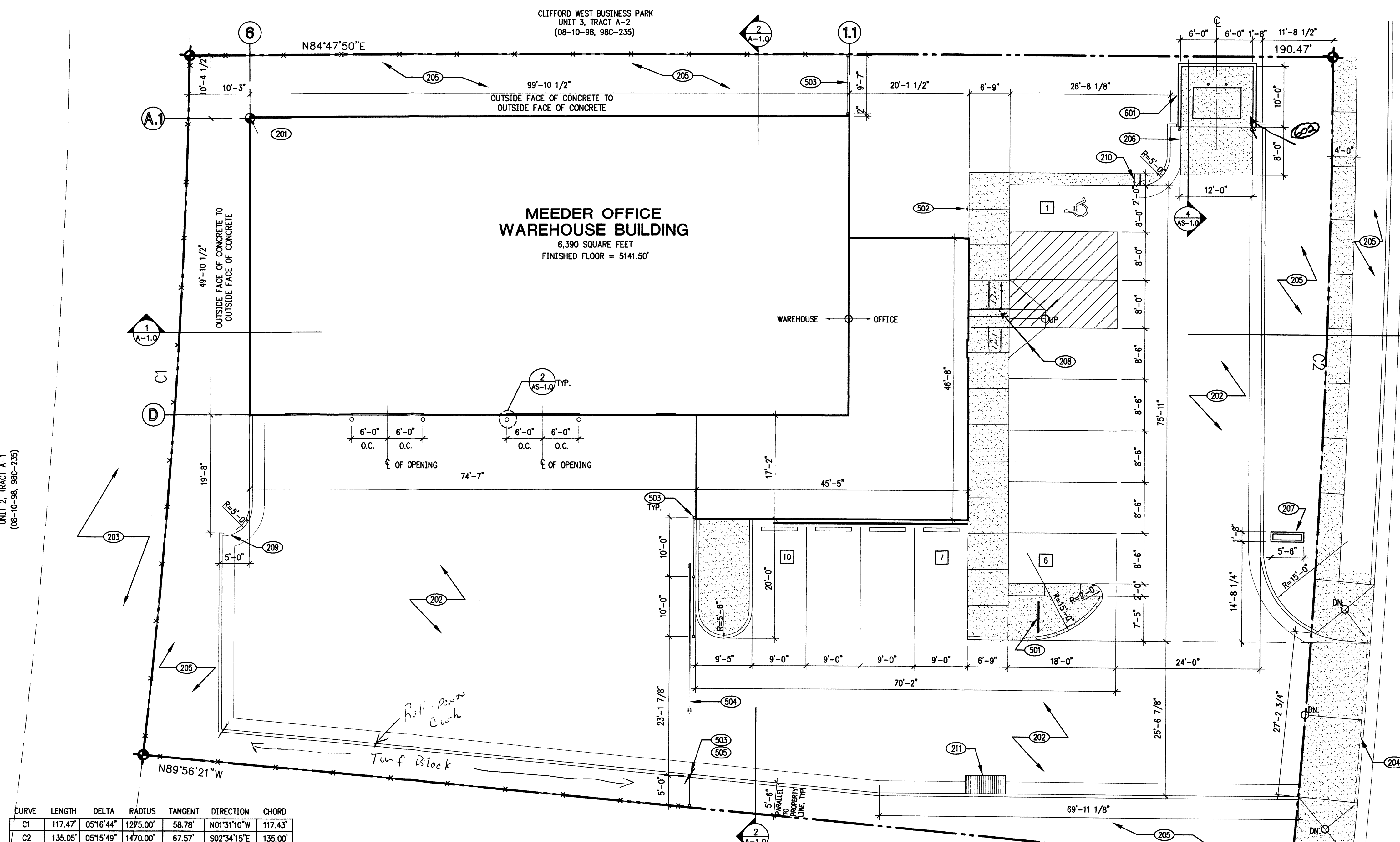
- 201 BUILDING LOCATION REFERENCE POINT. NORTH WALL OF BUILDING TO BE PARALLEL WITH NORTH PROPERTY LINE.
- 202 ASPHALTIC CONCRETE PAVING. 2" ASPHALT OVER 4" BASE COURSE, TYP.
- 203 EXISTING 20" WATERLINE EASEMENT.
- 204 LINE INDICATES EXISTING CURB. CUT DRIVEWAY AND CONSTRUCT NEW CURB AS SHOWN.
- 205 LANDSCAPED AREA. SEE LANDSCAPING PLAN.
- 206 4" DEEP 3000 PSI CONCRETE SLAB AT DUMPSTE ENCLOSURE.
- 207 BUILDING MONUMENT SIGN BY OWNER. SEE DETAIL BELOW.
- 208 HANDICAP RAMP.
- 209 CURB CUT.
- 210 SIDEWALK CULVERT.
- 211 DRAIN INLET.
- 501 STEEL PIPE BICYCLE RACK. SEE DETAIL 5 BELOW.
- 502 HANDICAPED PARKING SIGN. SEE DETAIL 6 BELOW.
- 503 TUBE STEEL FENCE POST. SEE DETAIL 3 BELOW.
- 504 ROLLING GATE. COORDINATE WITH STEEL FENCE MANUFACTURER.
- 505 CENTER FENCE POST ON CURB.
- 601 DUMPSTER ENCLOSURE - SEE DETAIL 4 BELOW.
- 602 CEDAR Pickett - Gate

SHEET INDEX

- AS-1.0 SITE PLAN
- C-1.0 GRADING & DRAINAGE / UTILITY PLAN
- L-1.0 LANDSCAPE PLAN
- A-1.0 BUILDING ELEVATIONS / SITE SECTIONS

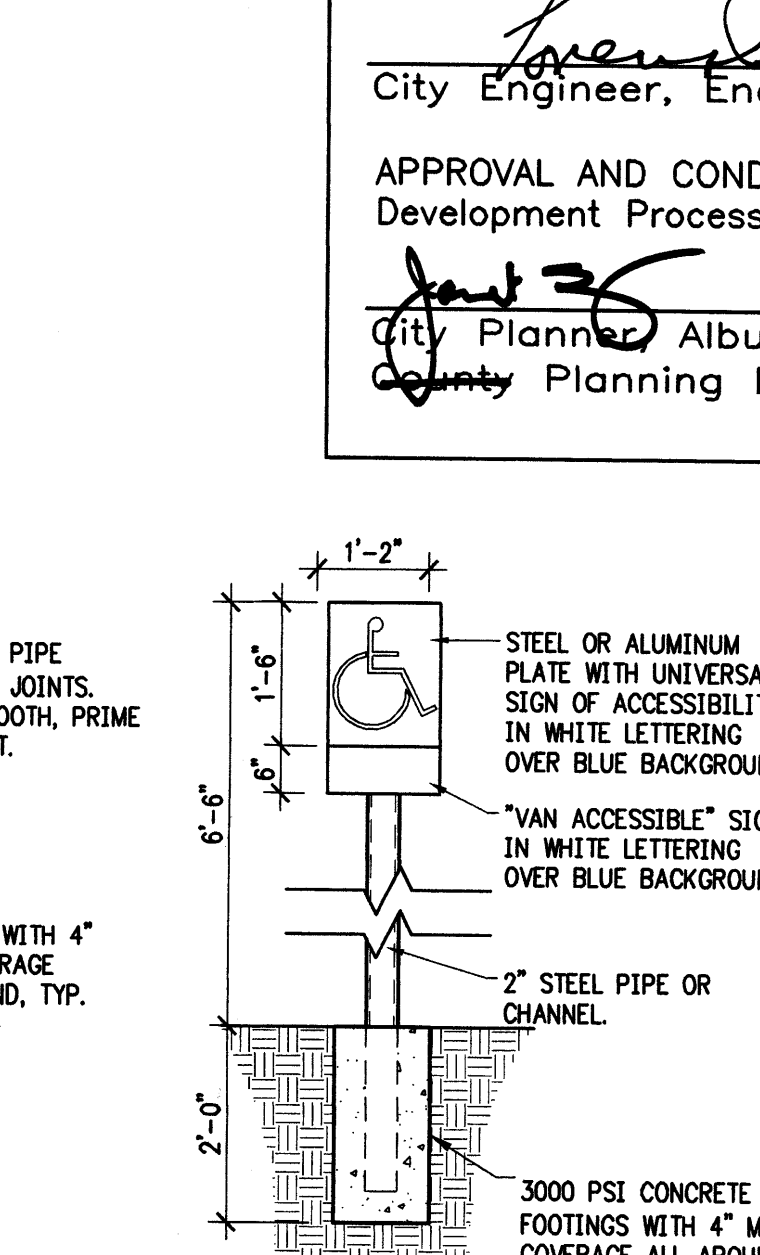
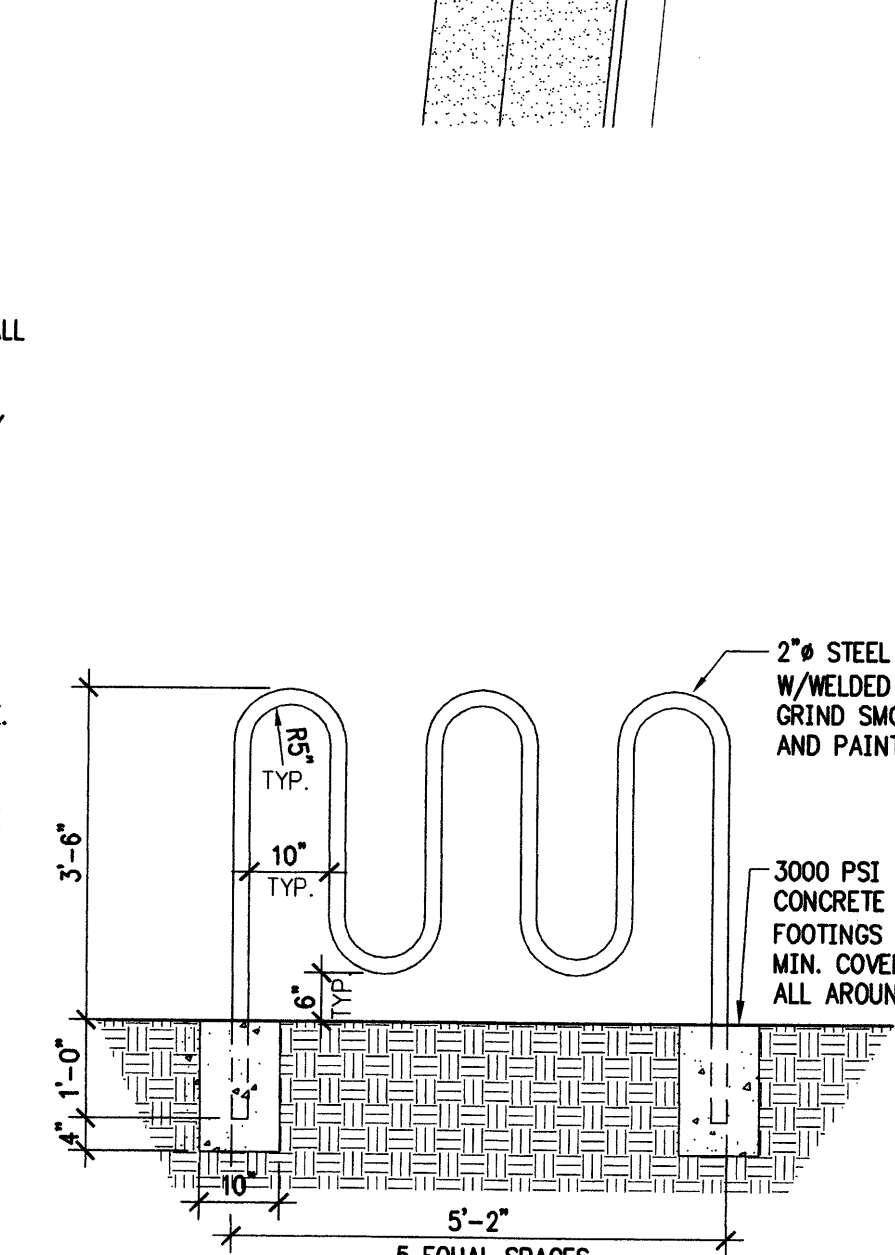
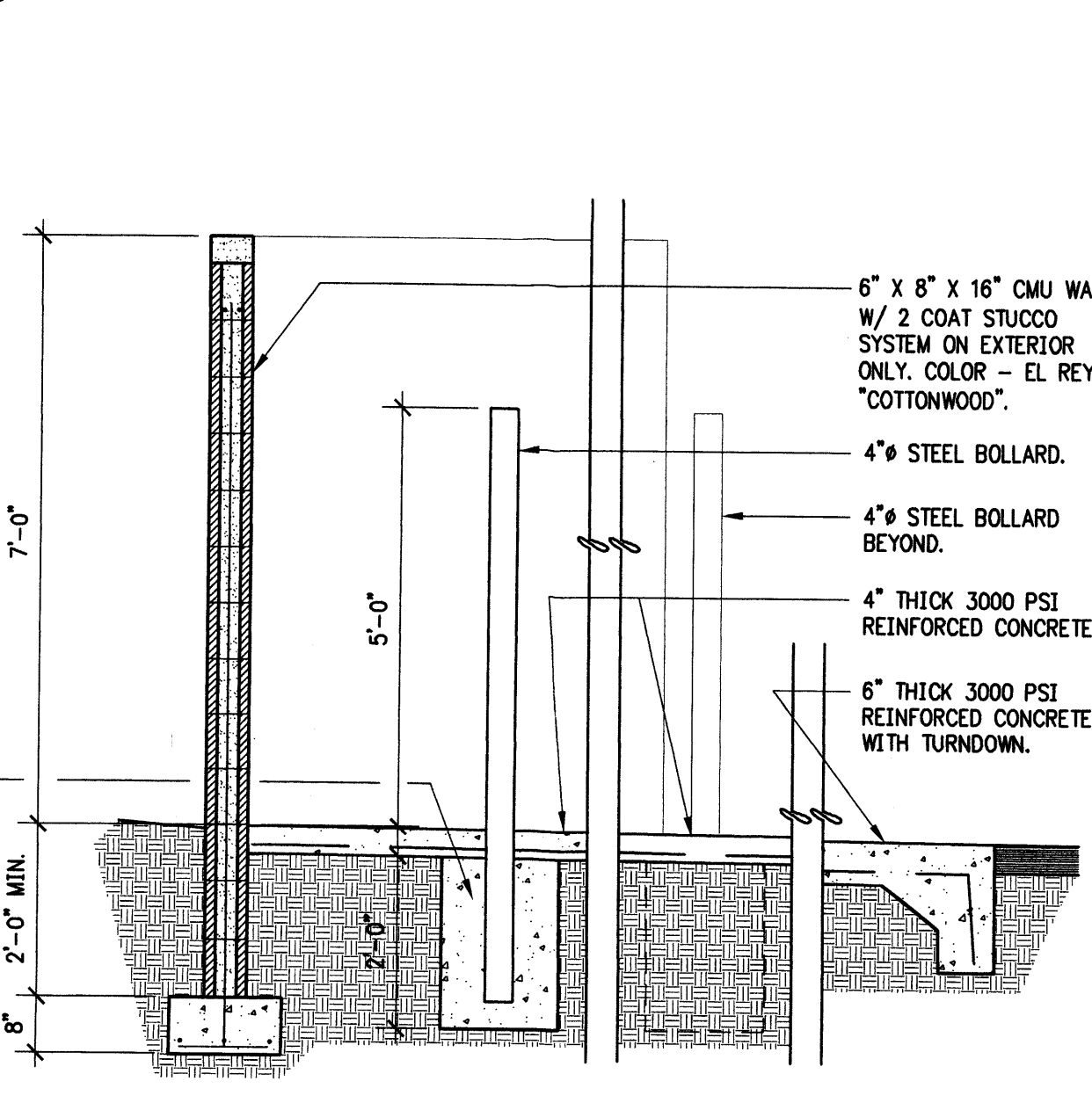
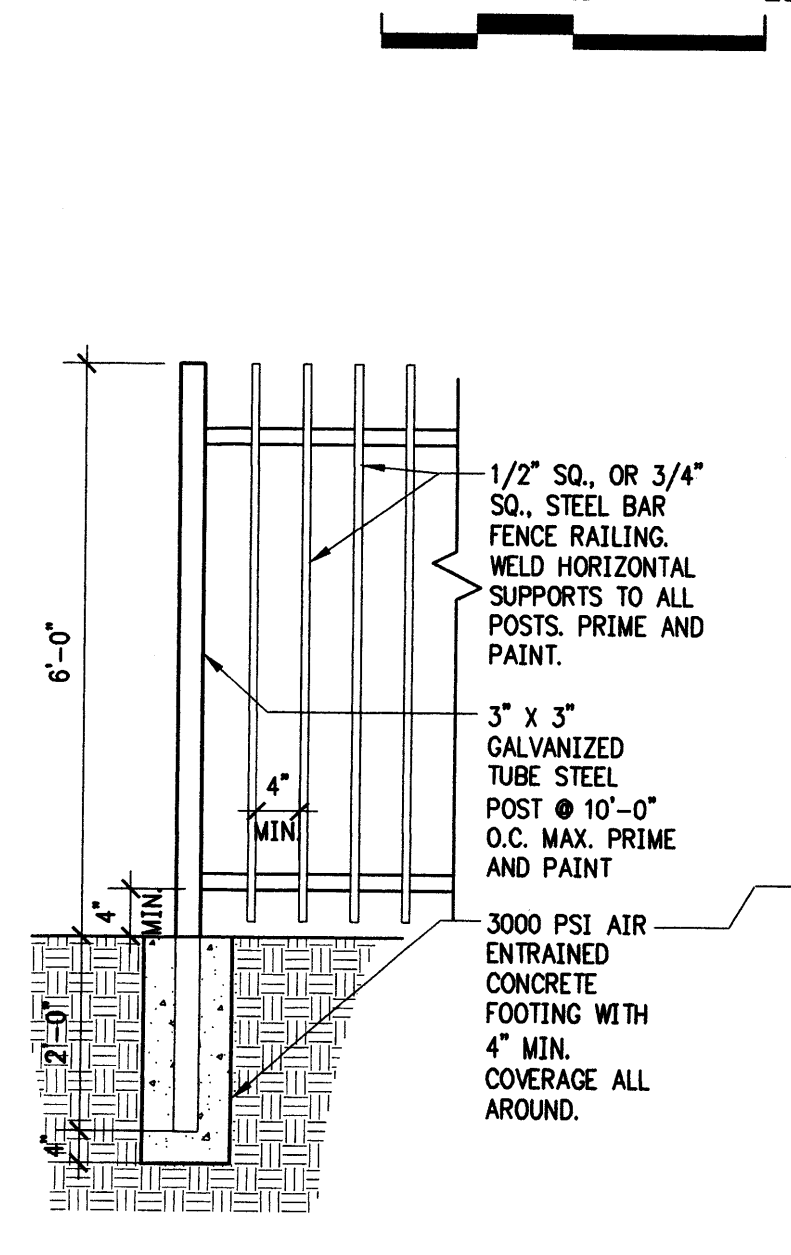
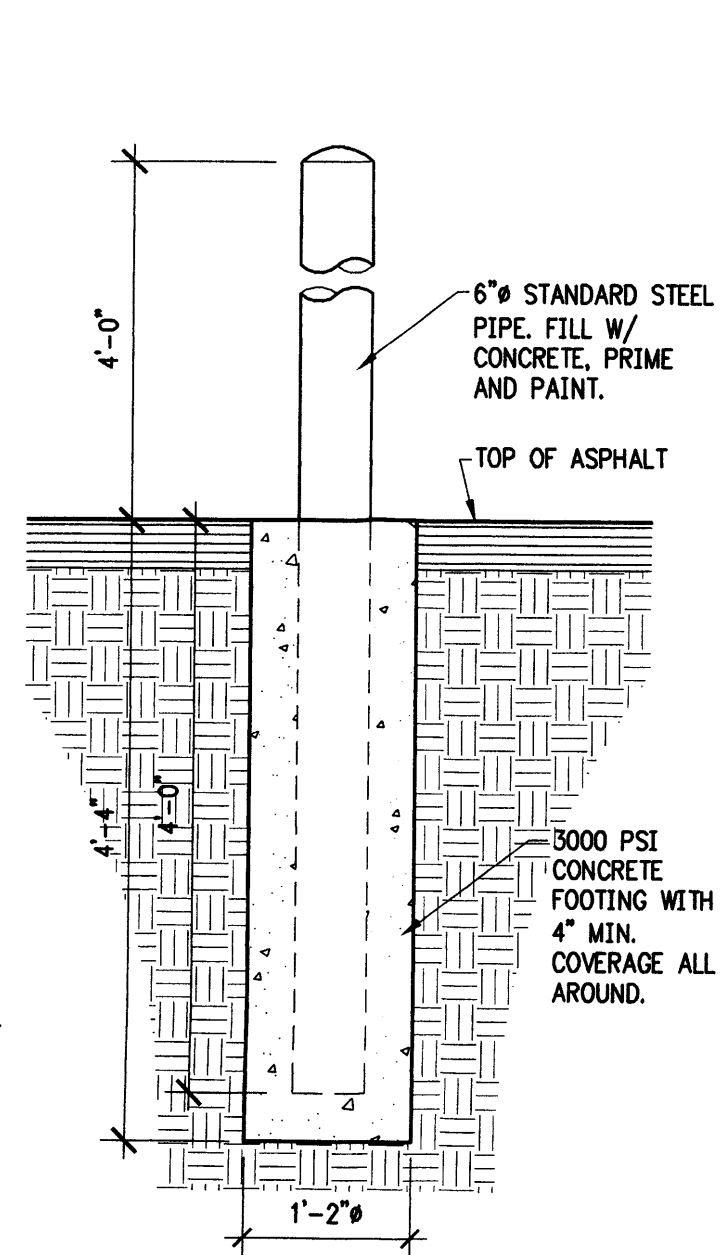
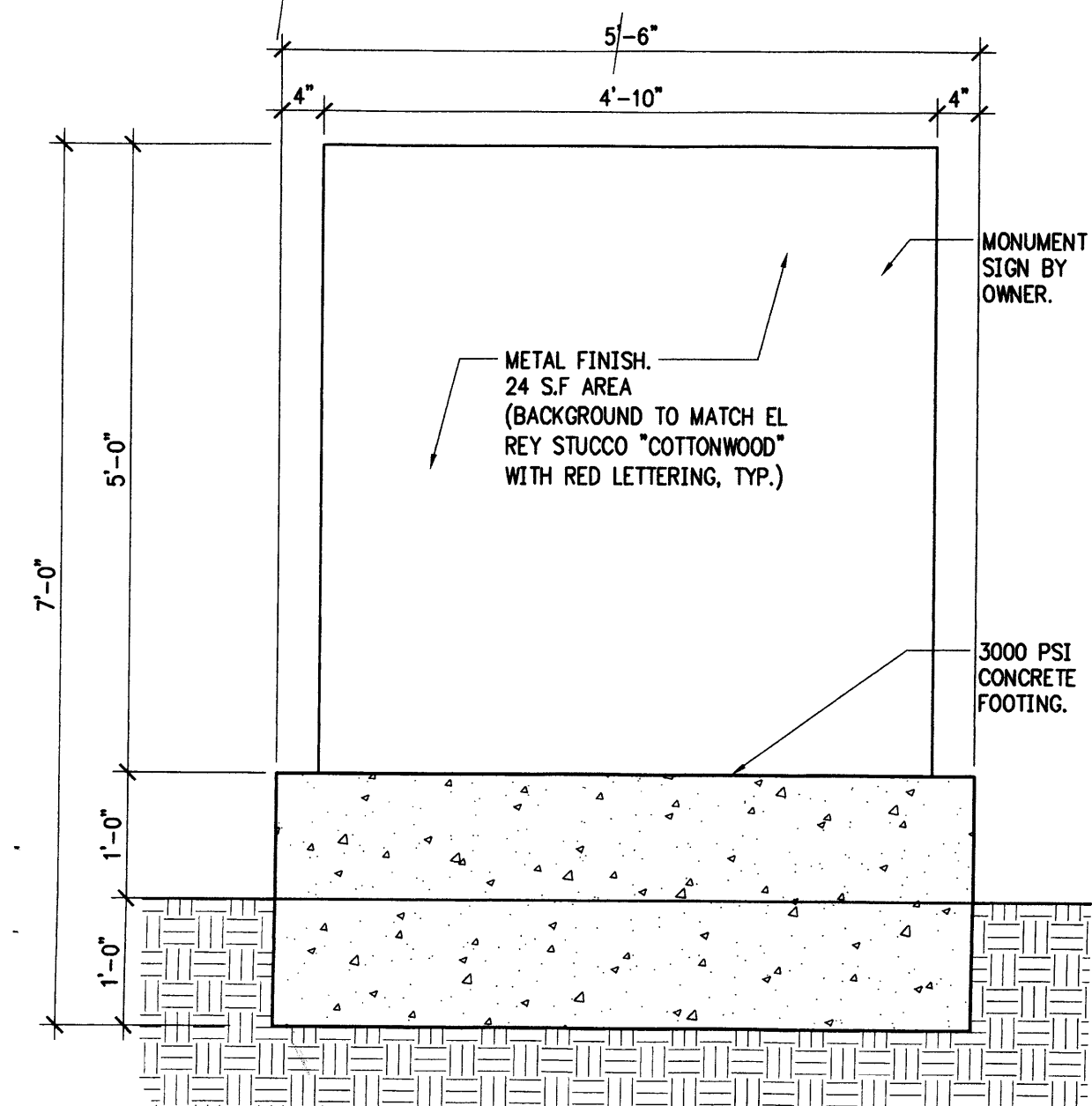
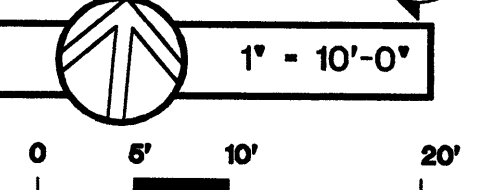
Application # 01420-0000-00263

PROJECT NUMBER: -	
<i>Shirley SanBica</i>	4/16/01
Solid Waste Department	Date
<i>Rahul Das</i>	3-25-01
Traffic Engineer, Transportation Division	Date
<i>Adrienne E. Carls</i>	4-17-01
Parks & General Services Department	Date
<i>Roger A. Hume</i>	4-16-01
Public Works, Water Utilities Division	Date
<i>James D. Main</i>	4/20/01
City Engineer, Engineering Division / AMAFCA	Date
APPROVAL AND CONDITIONAL ACCEPTANCE: as specified by the Development Process Manual.	
<i>Janet 36</i>	4/25/01
City Planner, Albuquerque / Bernalillo	Date
County Planning Division	



CURVE	LENGTH	DELTA	RADIUS	TANGENT	DIRECTION	CHORD
C1	117.47'	05°16'44"	1275.00'	58.78'	N01°31'10"W	117.43'
C2	135.05'	05°15'49"	1470.00'	67.57'	S02°34'15"E	135.00'

SITE PLAN



- MONUMENT SIGN 1 3/4"-1'-0"
- BOLLARD 2 3/4"-1'-0"
- STEEL FENCE 3 1/2"-1'-0"
- FENCE @ DUMPSTER 4 1/2"-1'-0"
- BIKE RACK 5 1/2"-1'-0"
- H.C. SIGN 6 1/2"-1'-0"

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 2412 MILES ROAD SE
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 lga@gwcp.com

MEEDER OFFICE WAREHOUSE
 Albuquerque, New Mexico

PROJECT ARCHITECT:
 LEE GAMESKY, AIA

Project #: lga 00-07-P
 Date: JANUARY, 2001

**SITE PLAN
 DRB SUBMITTAL**

By: _____
 File: _____

Sheet of
AS-1.0

GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
 UNIFORM BUILDING CODE, 1997 EDITION
 AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
 SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOIST AND JOIST GIRDERS, SJI 1994
 SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION
 AISI COLD FORMED STEEL MANUAL, 1986 EDITION
 ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-95
 AISI D11 AND D13

2. DESIGN CRITERIA:

A. VERTICAL:

LIVE LOAD	
ROOF (SNOW)	20 PSF

* LOAD HAS NOT BEEN REDUCED IN ACCORDANCE WITH UBC SECTION 1607.3

B. HORIZONTAL:

(1) WIND	(METHOD 2)	P = CE CQ GS I
COMBINED HEIGHT, EXPOSURE & GUST FACTOR/ICE FROM TABLE NO 23-G		
PRESSURE COEFFICIENTS	0-40 FT.	CQ = 13

WIND STAGNATION PRESSURE (BASIC WIND SPEED = 75 MPH)	GS = 15.0 PSF
IMPORTANCE FACTOR	I = 1.0

WIND PRESSURE	0-15 FT. = 20.7 PSF
	15-20 FT. = 22.0 PSF
	20-25 FT. = 23.2 PSF
	25-30 FT. = 24.0 PSF

(2) SEISMIC: V = 25 Ca I W / R

ZONE 2B	Z = 0.20
SOIL PROFILE TYPE	Scd
IMPORTANCE FACTOR	I = 1.0
SEISMIC COEFFICIENT	Ca = 0.24
	R = 4.2
SEISMIC FORCE	V = 0.143 X W

* ALLOWABLE 1/3 STRESS INCREASE FOR WIND OR SEISMIC LOADING
 C. ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (AFTER PLACEMENT OF STRUCTURAL FILL)

3. GENERAL:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
- TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
- NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
- THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
- REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:

A. CAST-IN-PLACE CONCRETE:

- ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-96.
- ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
- NORMALWEIGHT CONCRETE:
 - FC = 4000 PSI • 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.)
 - FC = 3000 PSI • 28 DAYS (AIR ENTRAINED) - ALL INTERIOR CONCRETE (I.E. WALLS, FOOTINGS, PEDESTALS, ETC.)
 - FC = 3000 PSI • 28 DAYS - ALL INTERIOR SLABS ON GRADE
- THE CONTRACTOR SHALL NOT CAST FOUNDATIONS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES, EXCEPT AT PLANE OF EXISTING FOUNDATIONS OF ADJACENT BUILDINGS.

B. REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-95) AND THE STANDARD MANUAL (ACI 318-92).
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS AND TIES WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
- ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
- WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - VERTICAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
 - HORIZONTAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
- ALL HORIZONTAL REINFORCING IN FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 18 INCHES.
- CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 1. BARS LARGER THAN NO. 5 _____ 2"
 2. BARS NO. 5 OR SMALLER _____ 1 1/2"
- FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
- BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 318-92. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
- REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

C. STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS, SHAPES AND CONNECTIONS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. FY = 46 KSI.
- BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
- ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AISI STRUCTURAL WELDING CODE.
- ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
- HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B. IN CONFORMANCE WITH AISI D11 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PREQUALIFICATION REQUIRED.

D. STEEL JOISTS:

- STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 1994 STEEL JOIST INSTITUTE SPECIFICATIONS.
- NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
- WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
- PROVIDE BRIDGING IN ACCORDANCE WITH THE 40TH EDITION OF SJI STANDARD SPECIFICATIONS.

E. STEEL DECK:

- ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
- SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
- PROVIDE A MINIMUM OF 1/2" BEARING FOR ALL STEEL DECKS.
- ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE AT SUPPORTS.
- DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
- POWER DRIVEN FASTENERS SHALL HAVE A 0.145 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.

F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):

- ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 1986.
- WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" X 10 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
- PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
- ALL TRACK SHALL BE DEEP LEG, 10 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANSION BLEEVE ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

LIGHTGAGE STEEL SCHEDULE					
DEPTH	GAGE	AREA IN	Ix IN4	Sx IN3	Fy KSI
C 4"	18	0.351	0.882	0.437	33
C 6"	18	0.447	2.321	0.712	33
T 4"	18	0.279	0.658	0.306	33
T 6"	18	0.367	1.131	0.556	33

"C" INDICATES STUD, 1 1/2" FLANGES
 "T" INDICATES DEEP LEG TRACK, 1 1/4" FLANGES

GENERAL FOUNDATION NOTES

1. GENERAL:

- A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY AMEC EARTH & ENVIRONMENTAL, INC. A REPORT OF THAT INVESTIGATION DATED OCTOBER 25, 2000 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT.
 - ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORTS AND SHOULD BE REVIEWED.
2. FIELD OBSERVATION AND TESTS:
- THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.
 - TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
 - ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
 - ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
 - ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
 - THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:

- A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.
- SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
- PLACE MINIMUM OF 2'-0" OF STRUCTURAL FILL BENEATH ALL FOOTINGS AND SLABS IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

4. STRUCTURAL FILL REQUIREMENTS:

- GRADATION (ASTM D422):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
NO. 4	50-100
NO. 200	10-40

- FILL MATERIAL SHALL EXHIBIT A PLASTICITY INDEX OF 8 OR LESS.
- MATERIAL LARGER THAN 3 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
- NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

5. COMPACTION REQUIREMENTS:


- SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

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 lga@swcp.com



PROJECT ARCHITECT: LEE GAMELSKY, AIA
 PROJECT #: _____
 DATE: _____

STRUCTURAL NOTES

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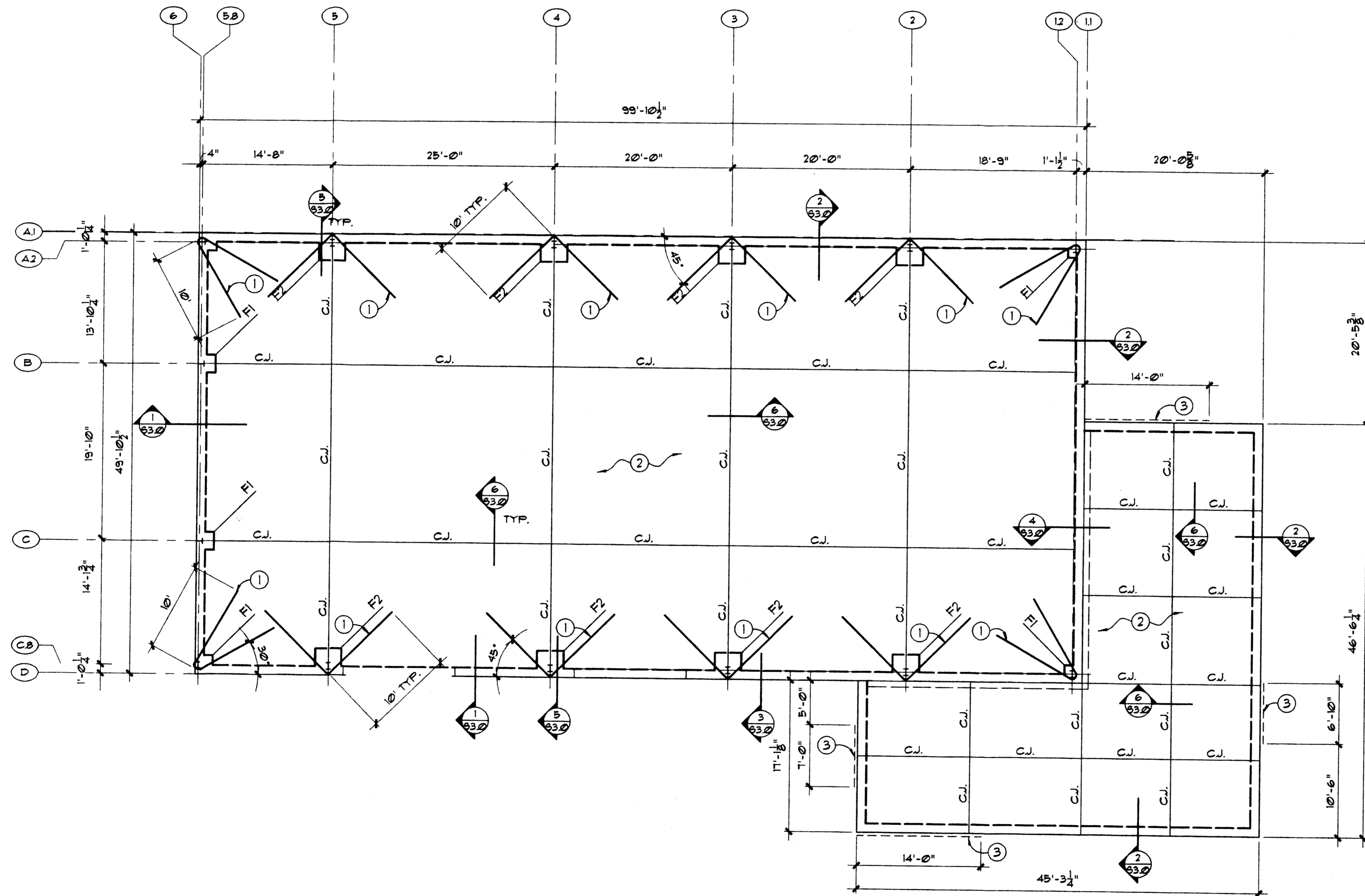
GENERAL NOTES

SEE PRE-ENGINEERED METAL BUILDING DRAWINGS FOR COLUMN BASE PLATE SIZES AND ANCHOR BOLT SIZE & CONFIGURATION.
DIMENSIONS SHOWN ARE TO FACE OF CONCRETE.

KEYED NOTES

- 1 #5 HAIRPIN @ COLUMN
- 2 4" THICK, 3000 PSI CONCRETE SLAB REINFORCED W/ 6x6x11/4x11/4 WUF OVER COMPACTED ENGINEERED FILL. FF. ELEV. = 100'-0", M.S.L.E. SEE CIVIL.
- 3 STRAPPED WALL-USE 2-#4x12 GA. DIAGONAL STRAPS IN 'X' CONFIGURATION @ OUTSIDE FACE OF STUDWALL PER 1/83.2, 12/83.2, & 14/83.2.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	2'-0"x2'-0"x2'-6" DP	3-#5 EW, T4B
F2	3'-0"x3'-0"x2'-6" DP	4-#5 EW, T4B



FOUNDATION PLAN 1" = 1'-0"

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lee@gwcp.com

PROJECT ARCHITECT: LEE GAMELSKY, AIA
Project #: _____
Date: _____

FOUNDATION PLAN

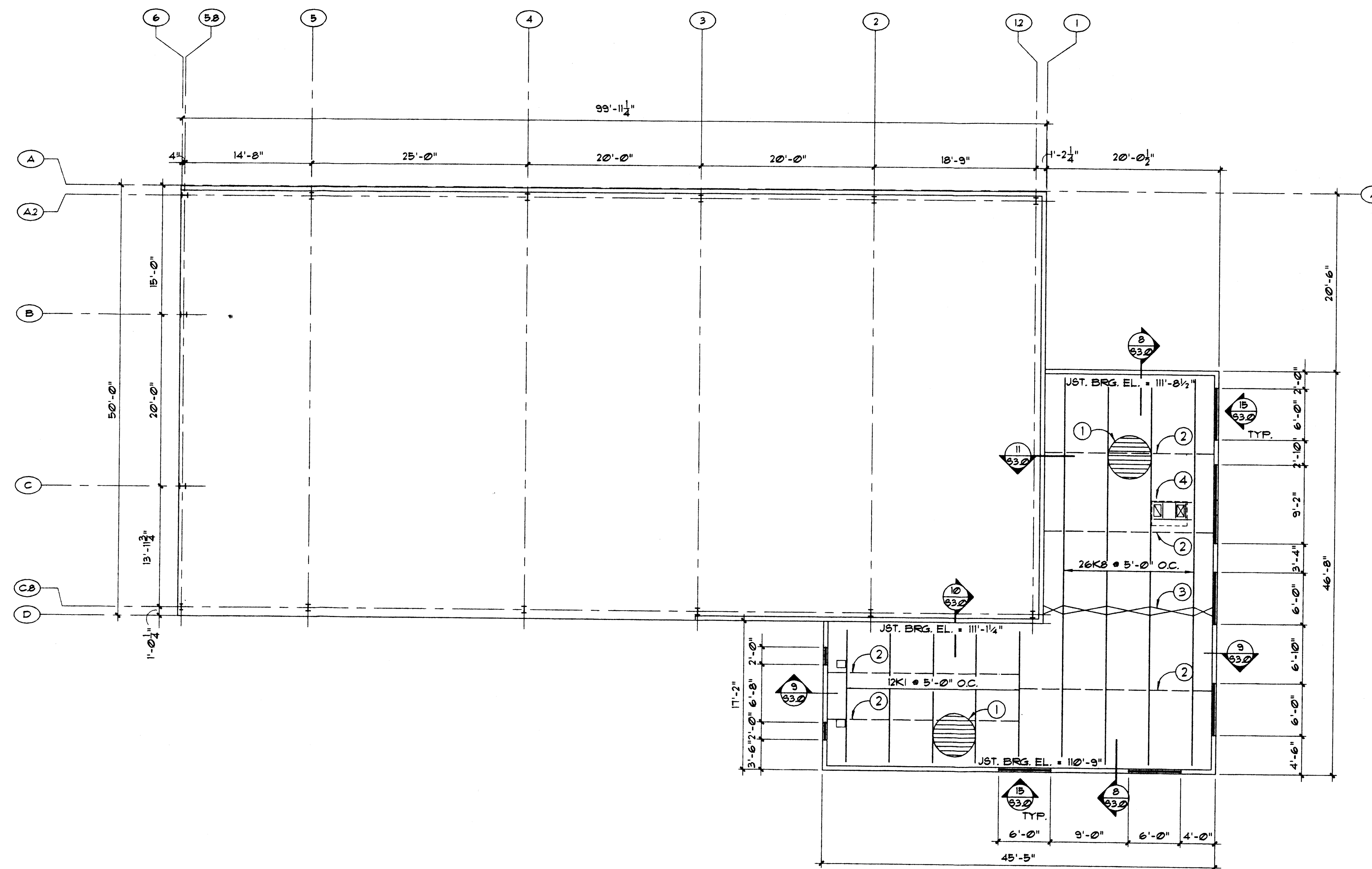
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GENERAL NOTES

DIMENSIONS ARE TO FACE OF STUD

KEYED NOTES

- 1 1½" TYPE 'B', 22 GA. PAINTED METAL DECK WITH NESTABLE SIDELAPS, ATTACH DECK TO SUPPORTS WITH ⅜" RUDDLE WELDS @ 12" O.C. (4 PER 36" WIDE SHEET) AND #10 TEK SCREWS @ 12" O.C. @ SIDELAPS
- 2 L16x164 HORIZONTAL BRIDGING
- 3 L16x164 BOLTED CROSS BRIDGING
- 4 400# MECHANICAL UNIT FRAME OPENING PER DETAILS 18/6301 & 19/6301



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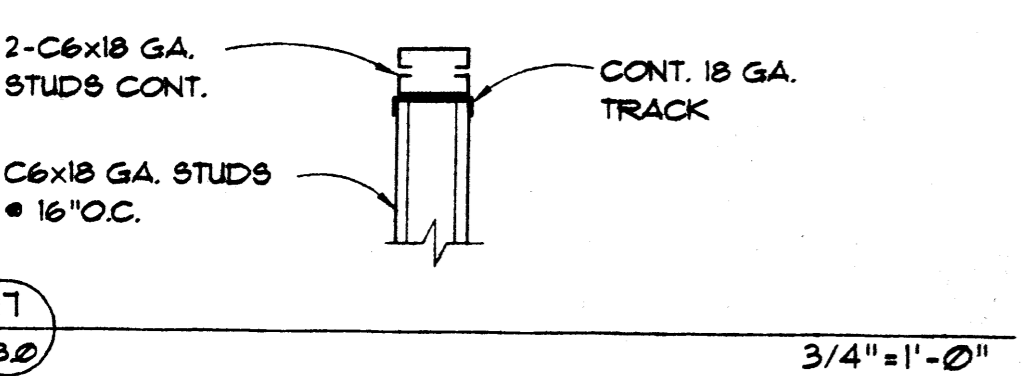
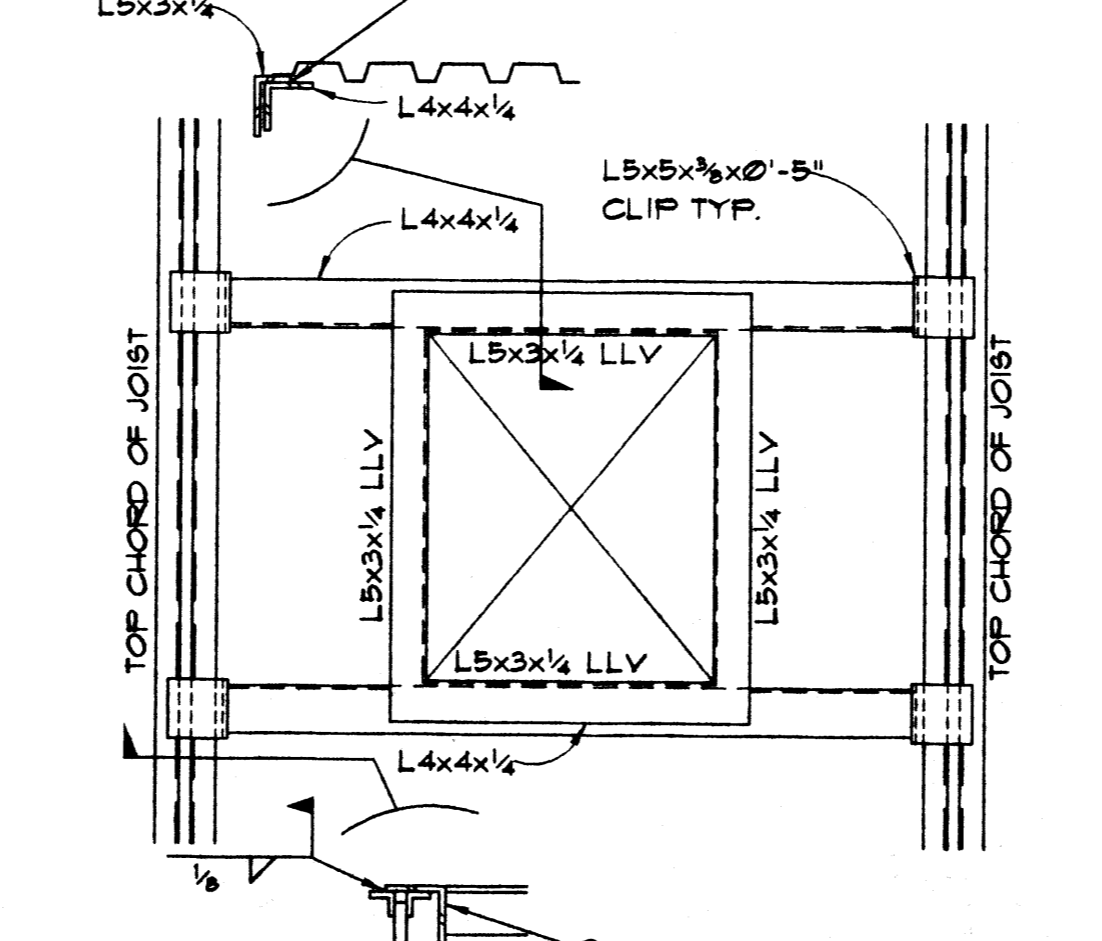
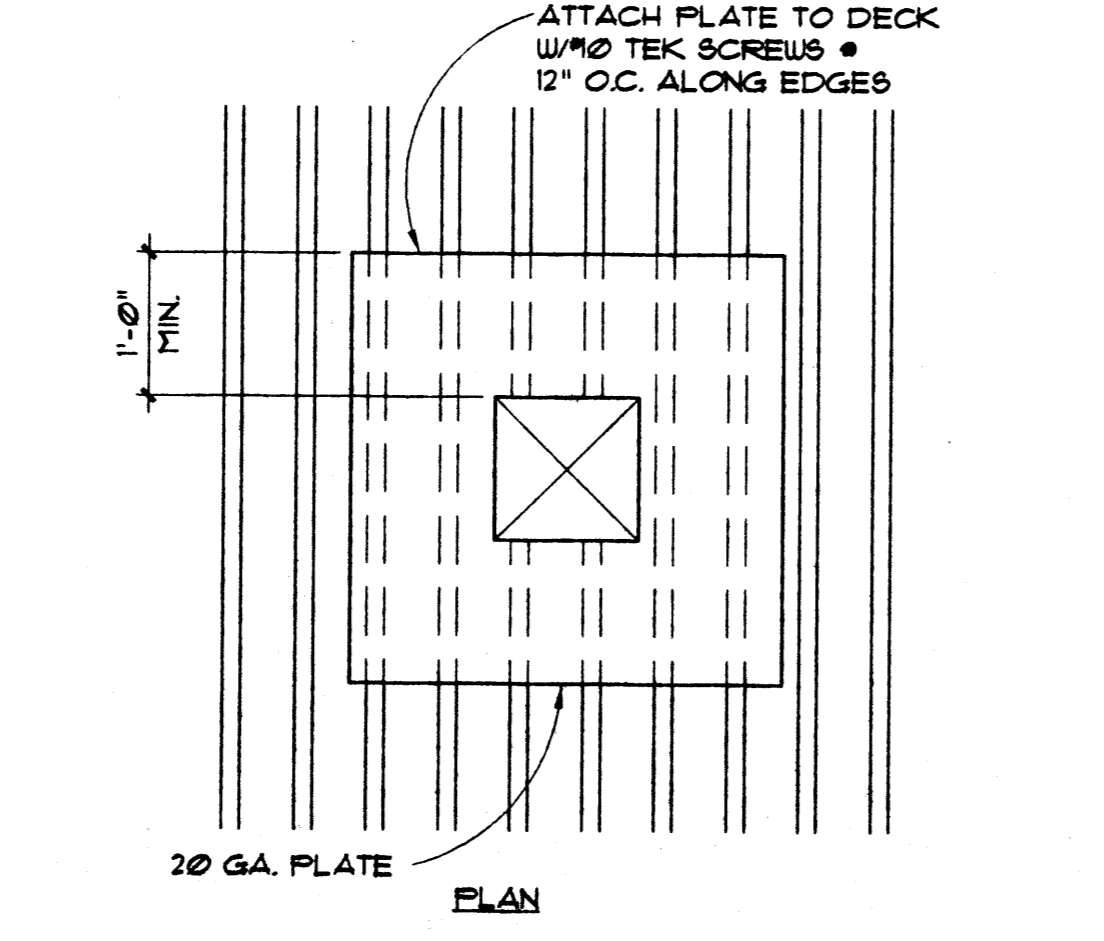
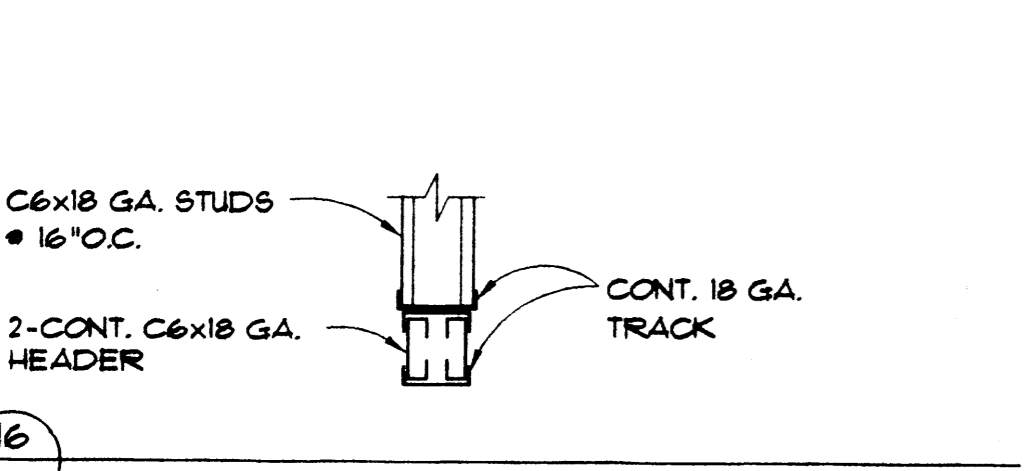
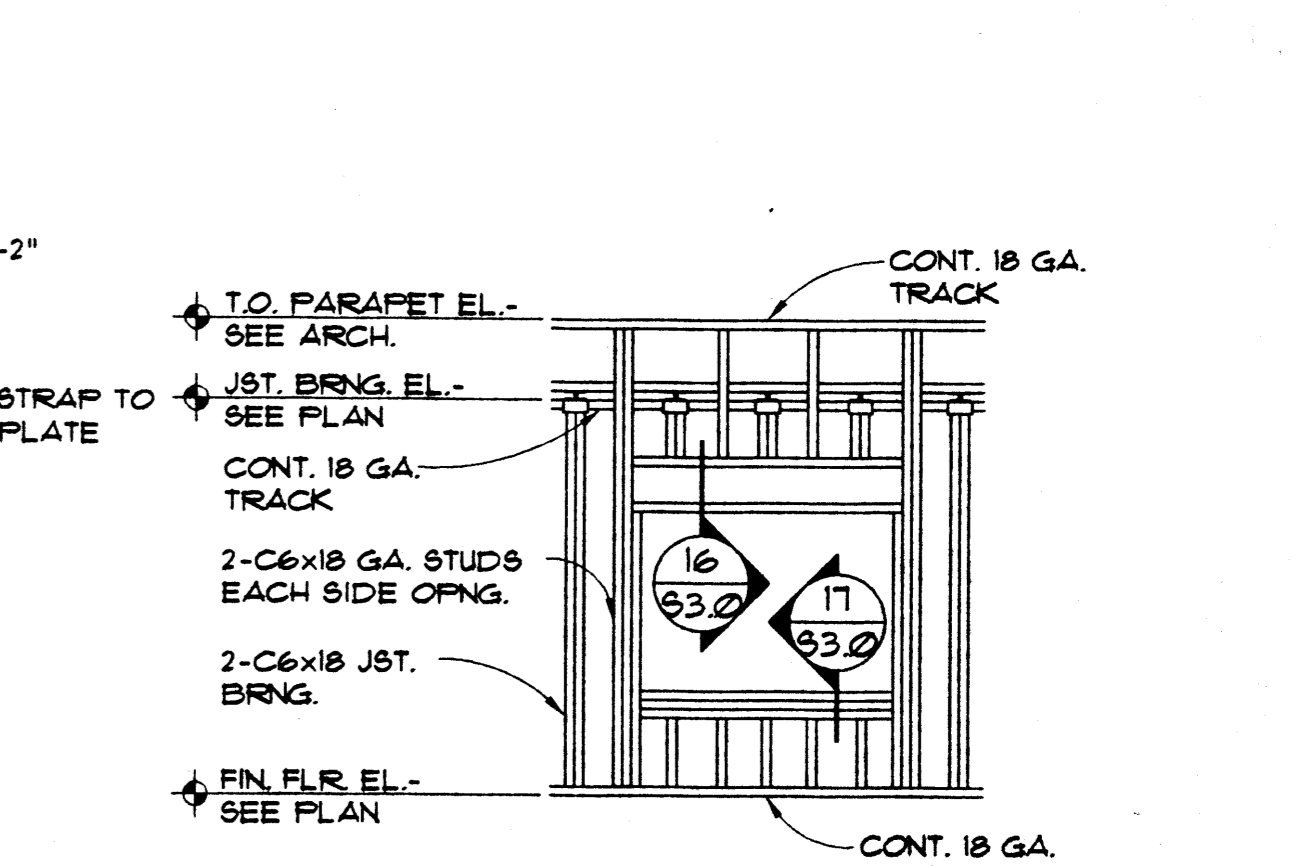
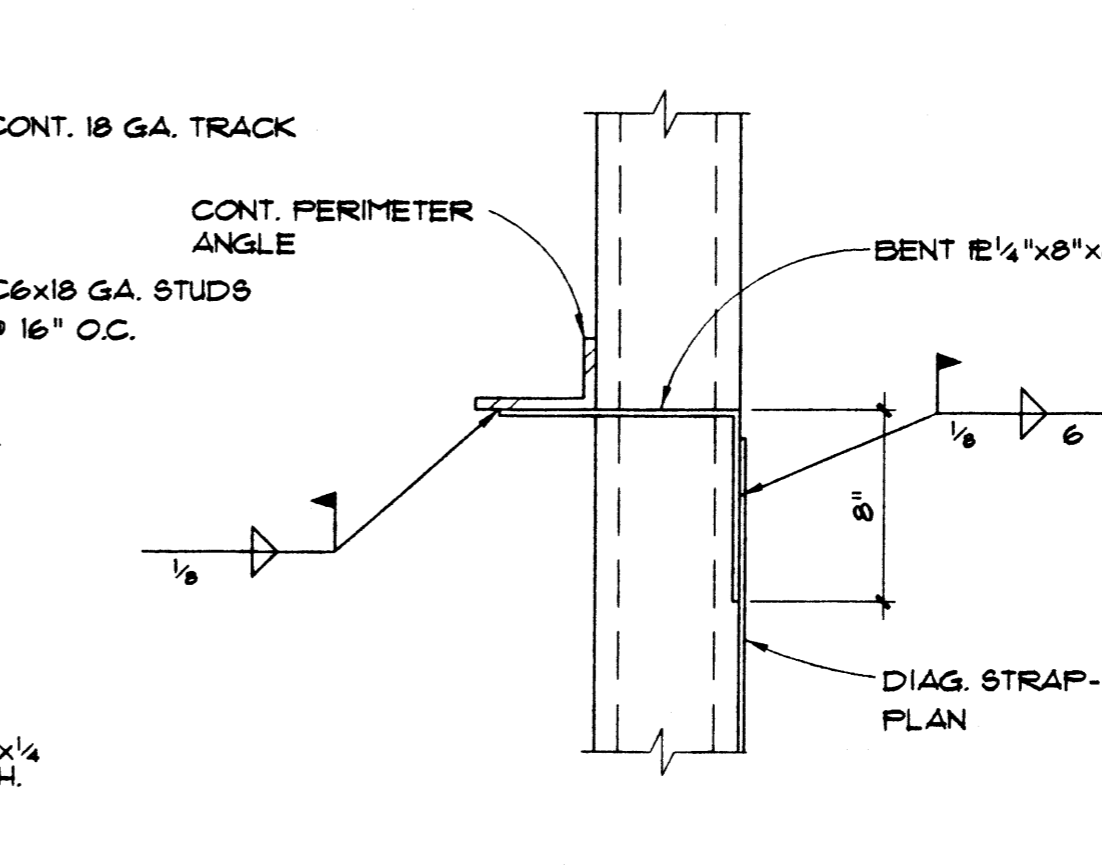
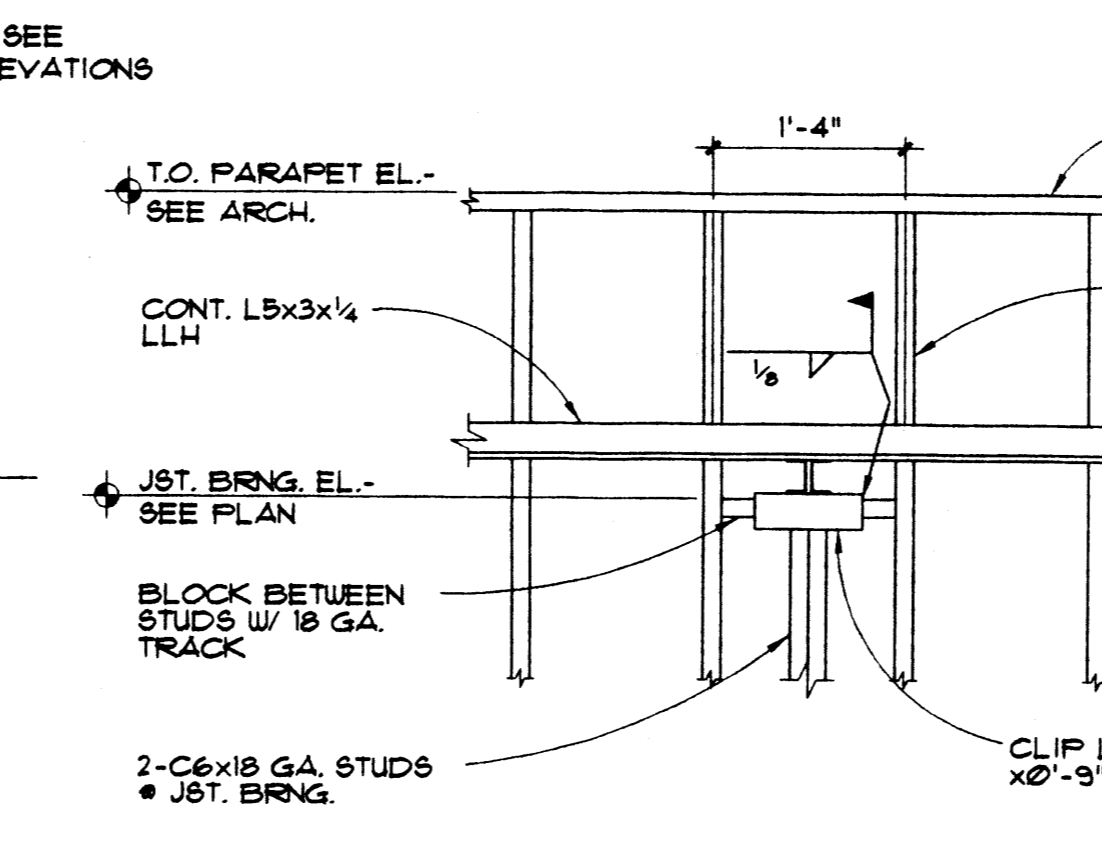
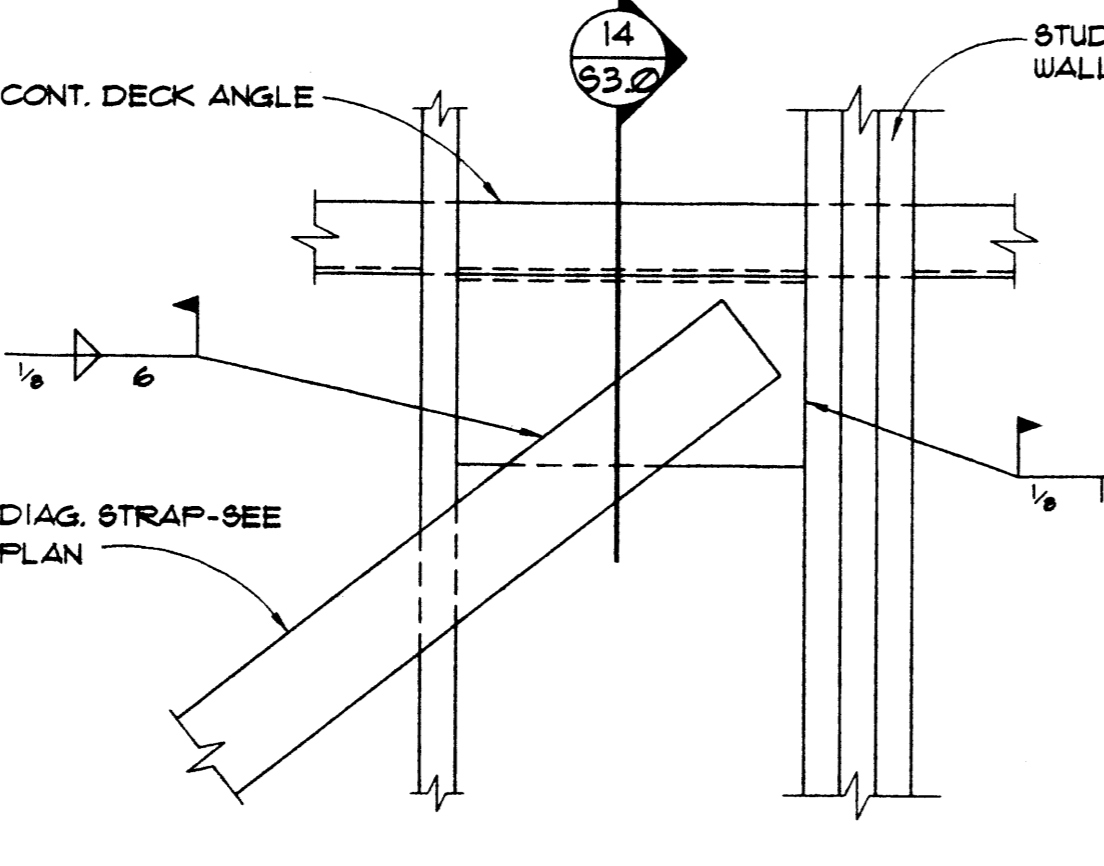
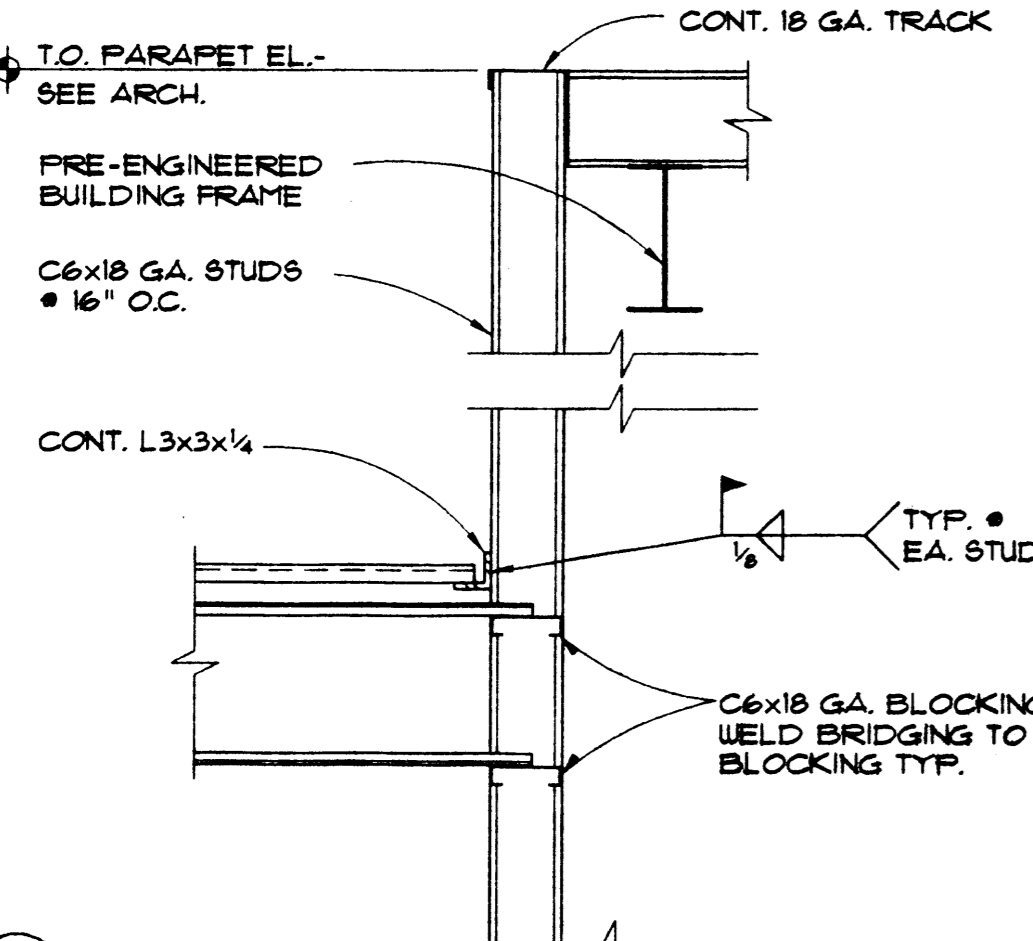
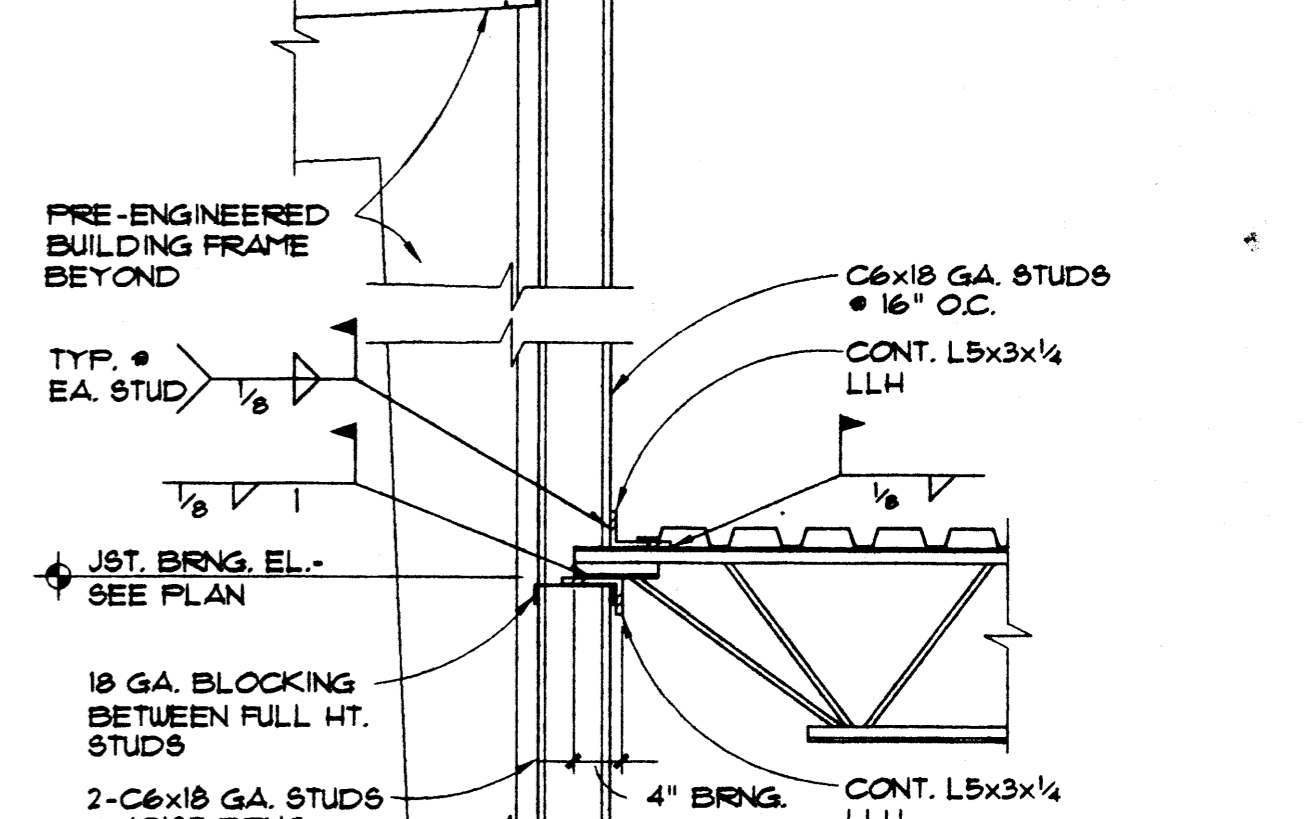
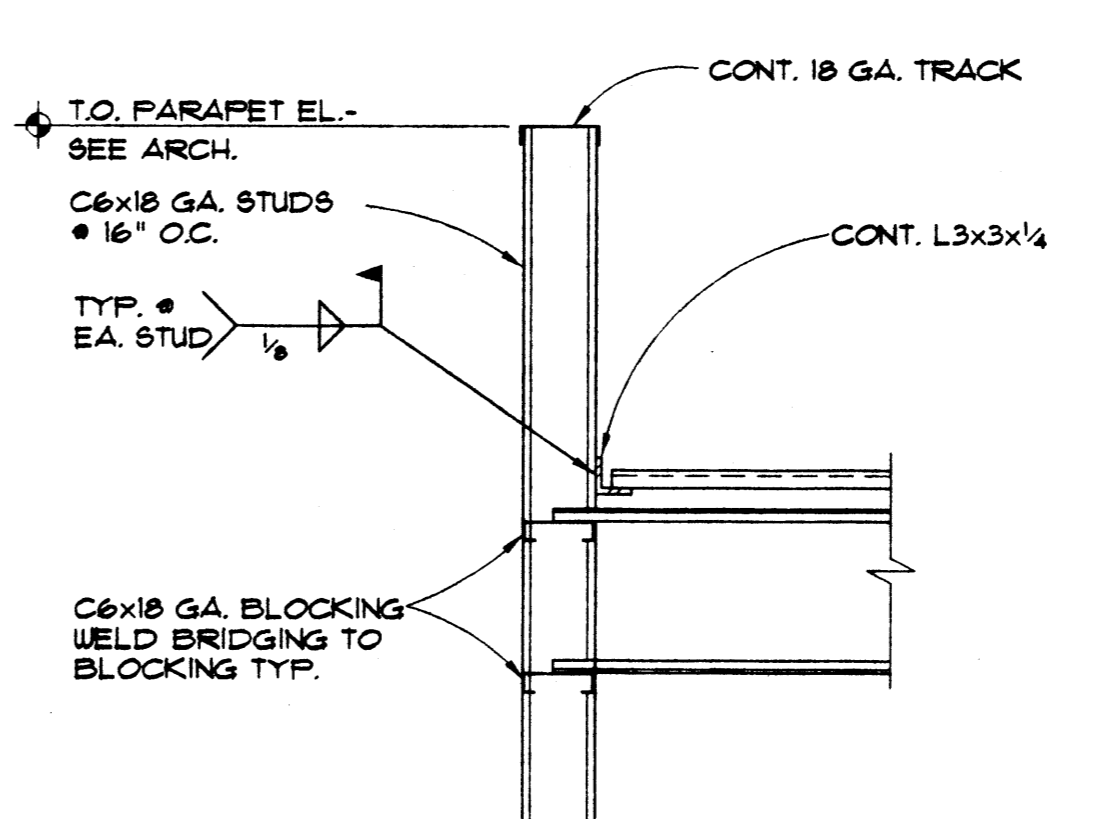
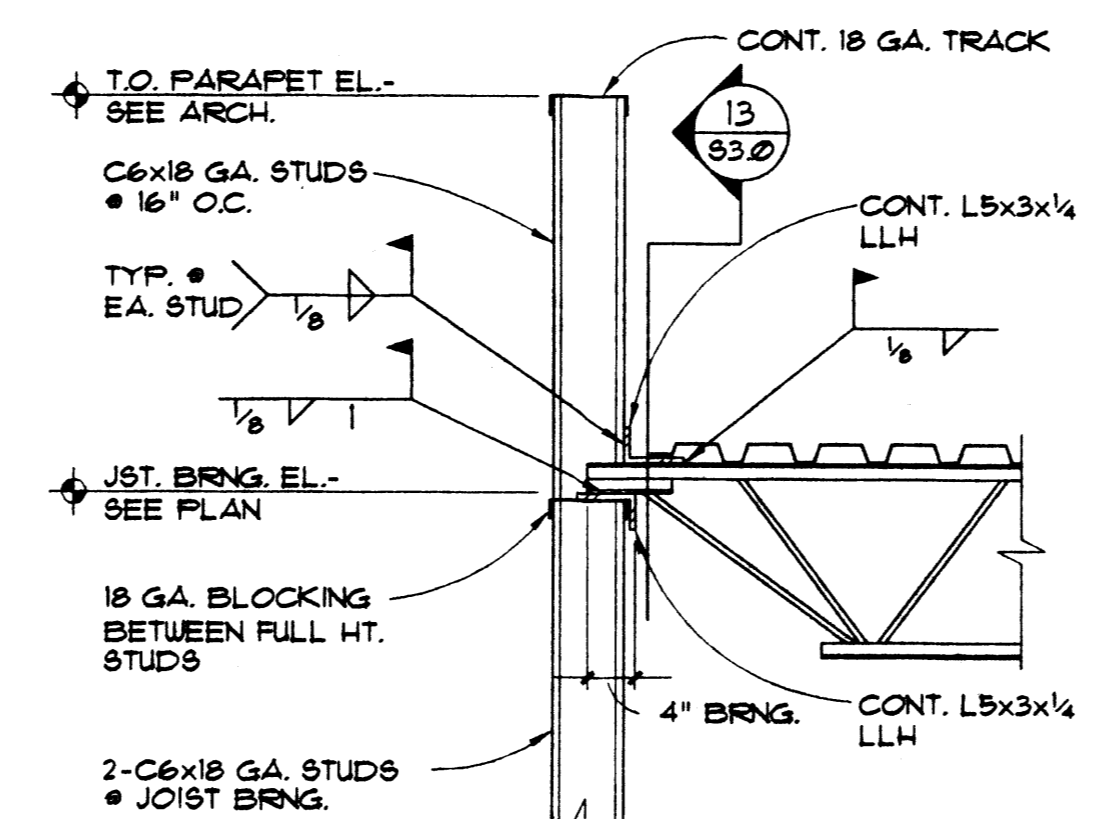
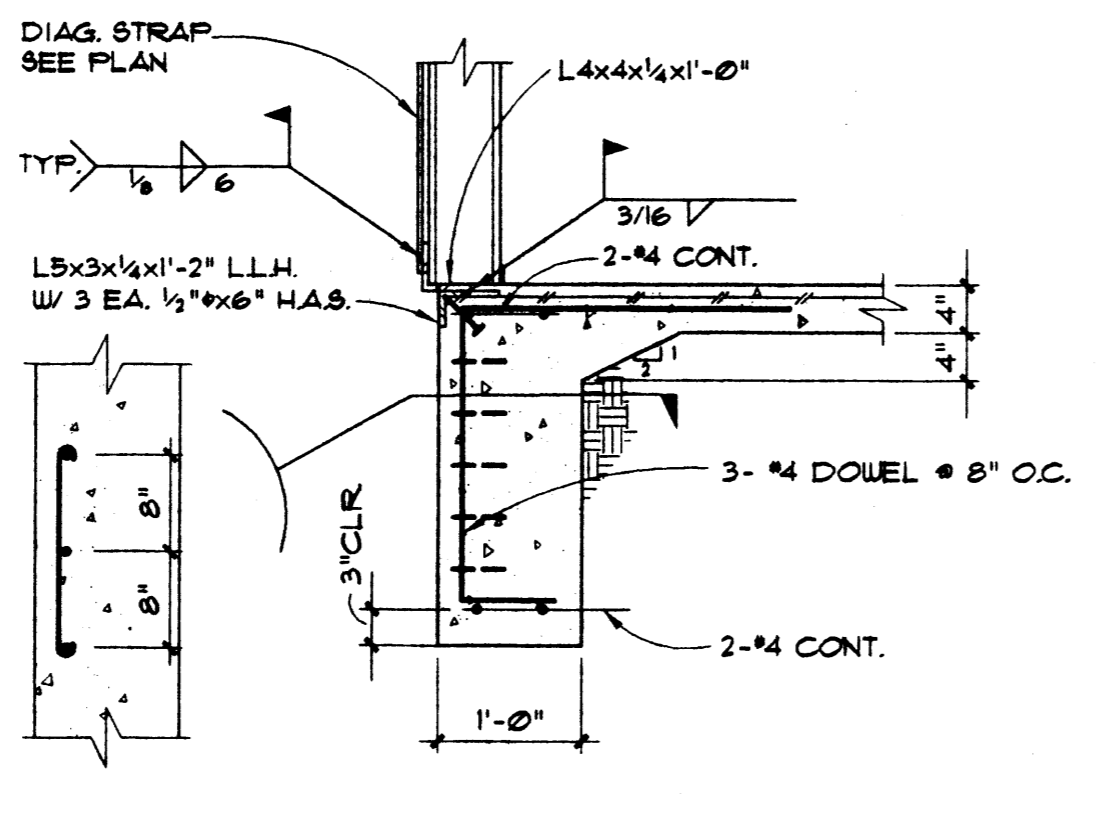
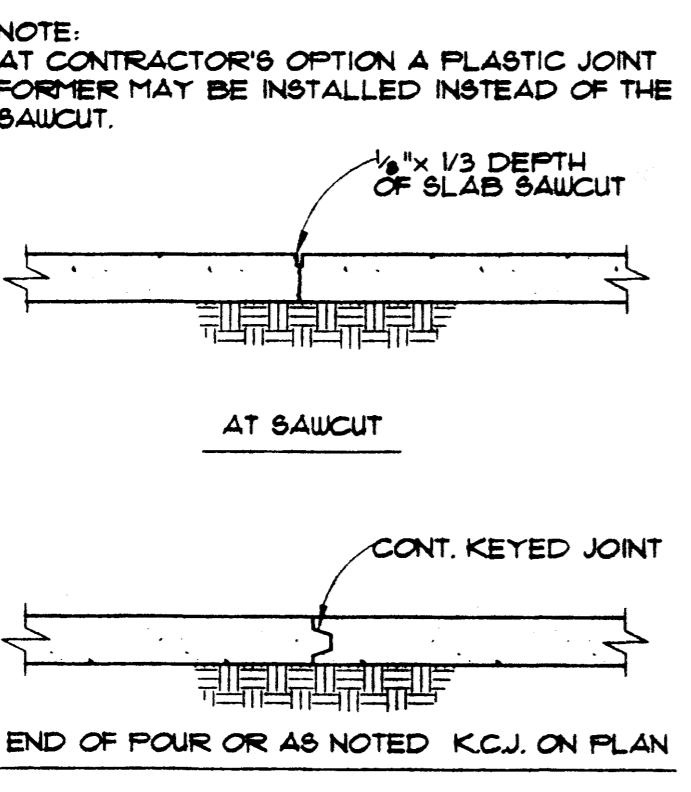
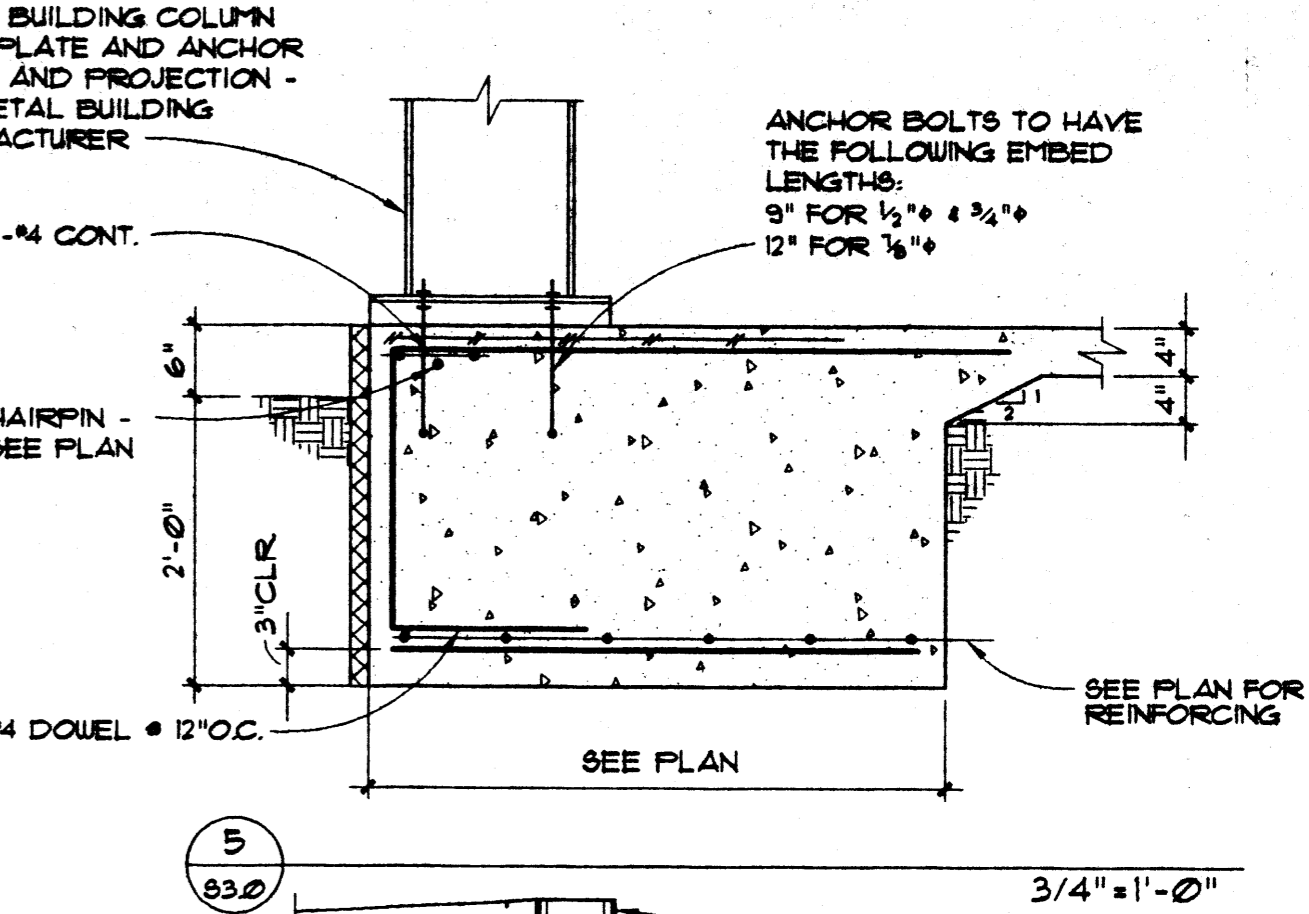
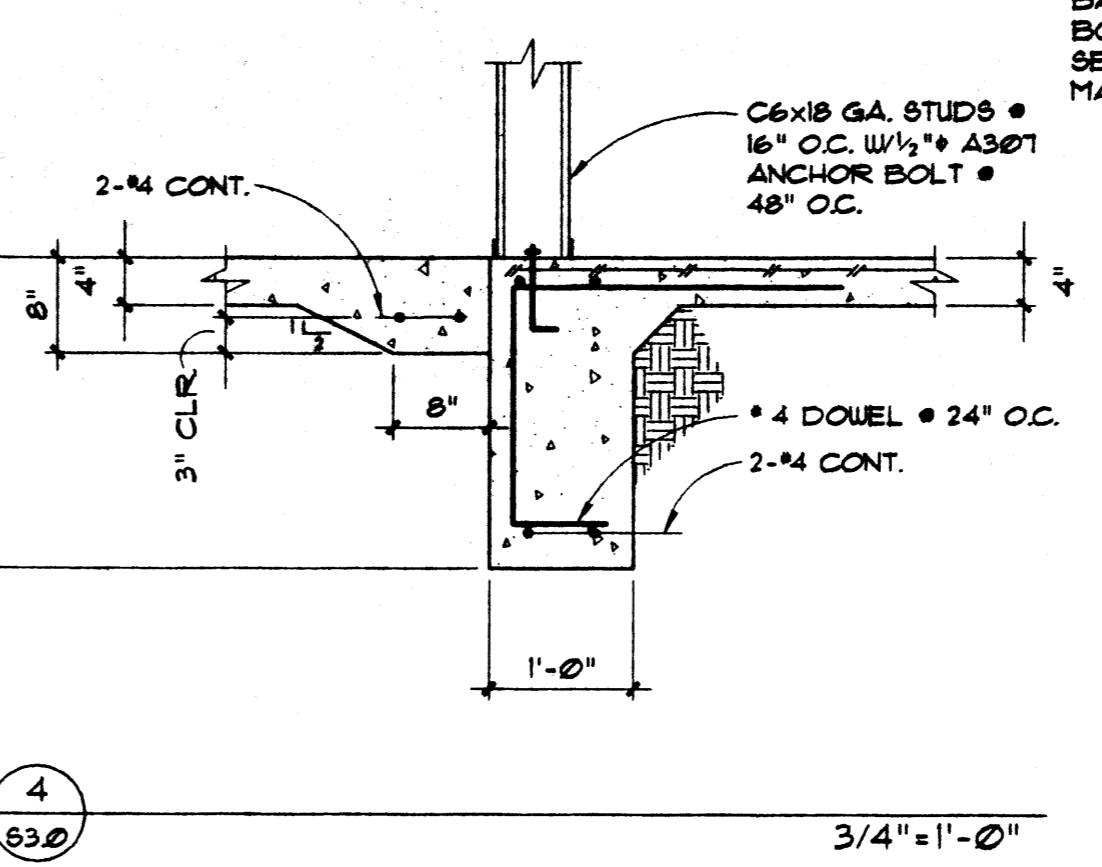
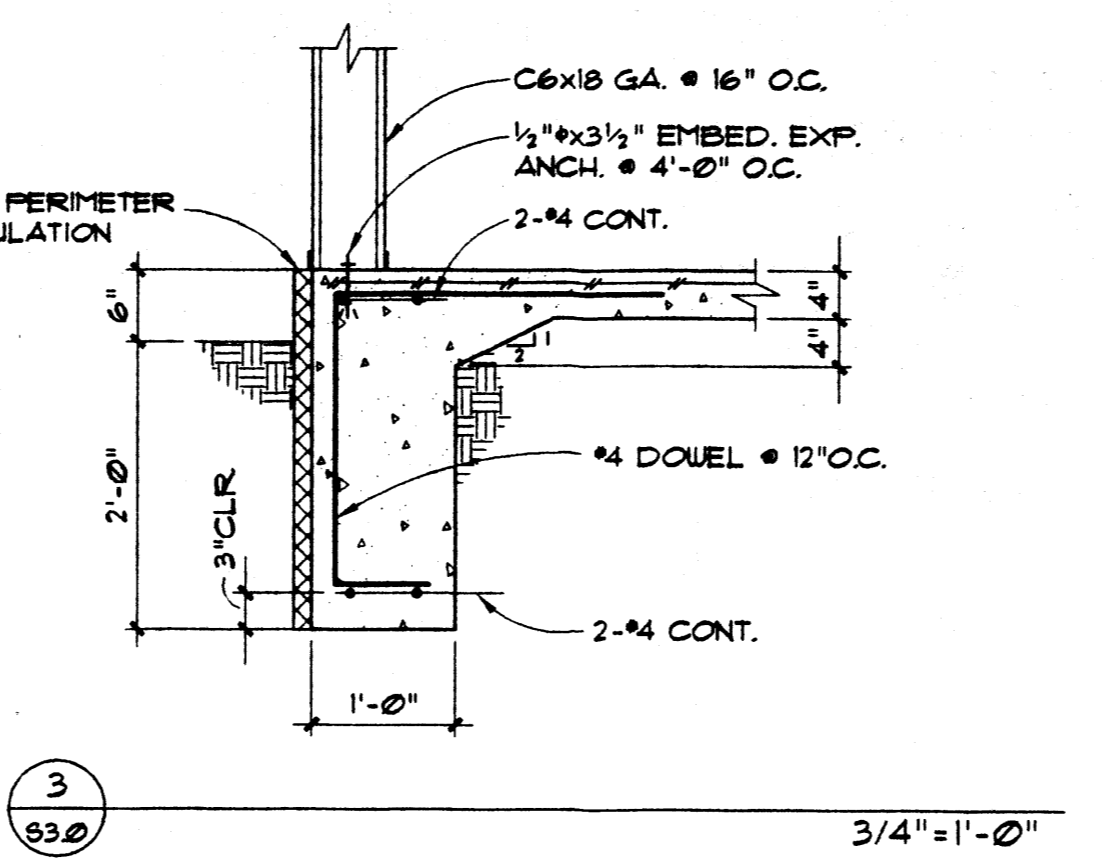
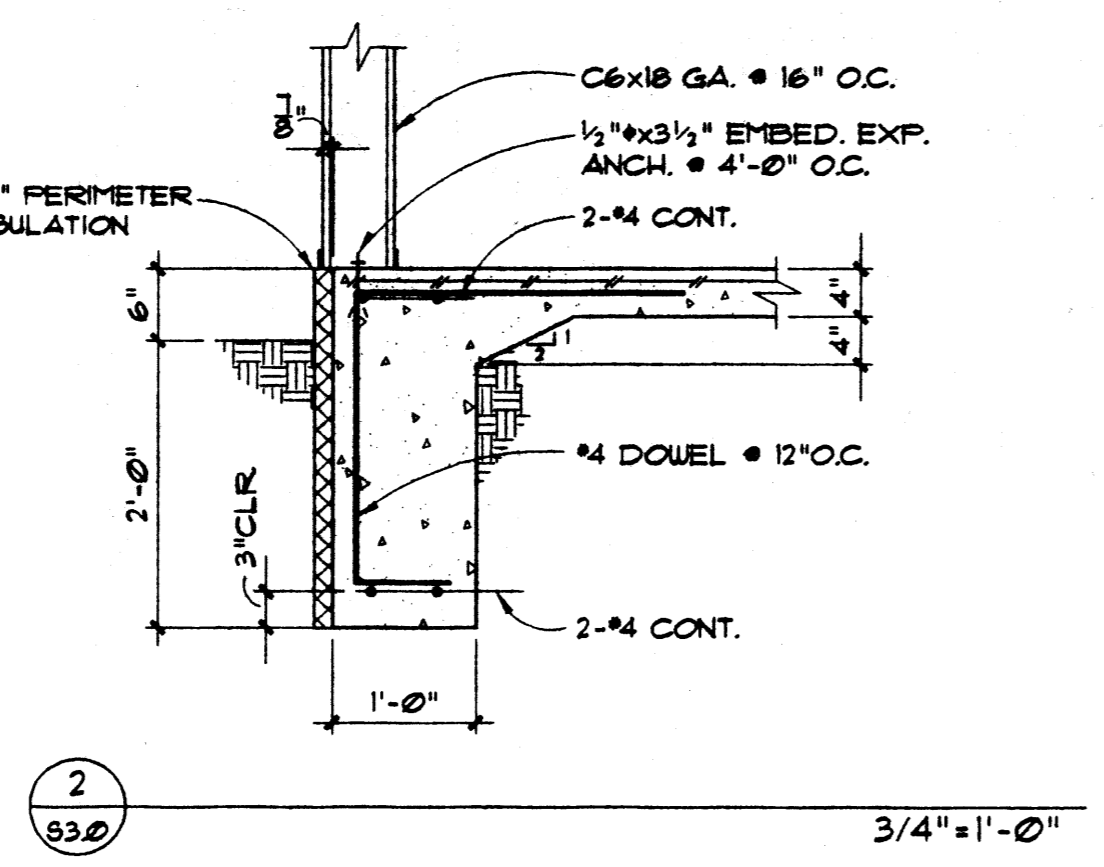
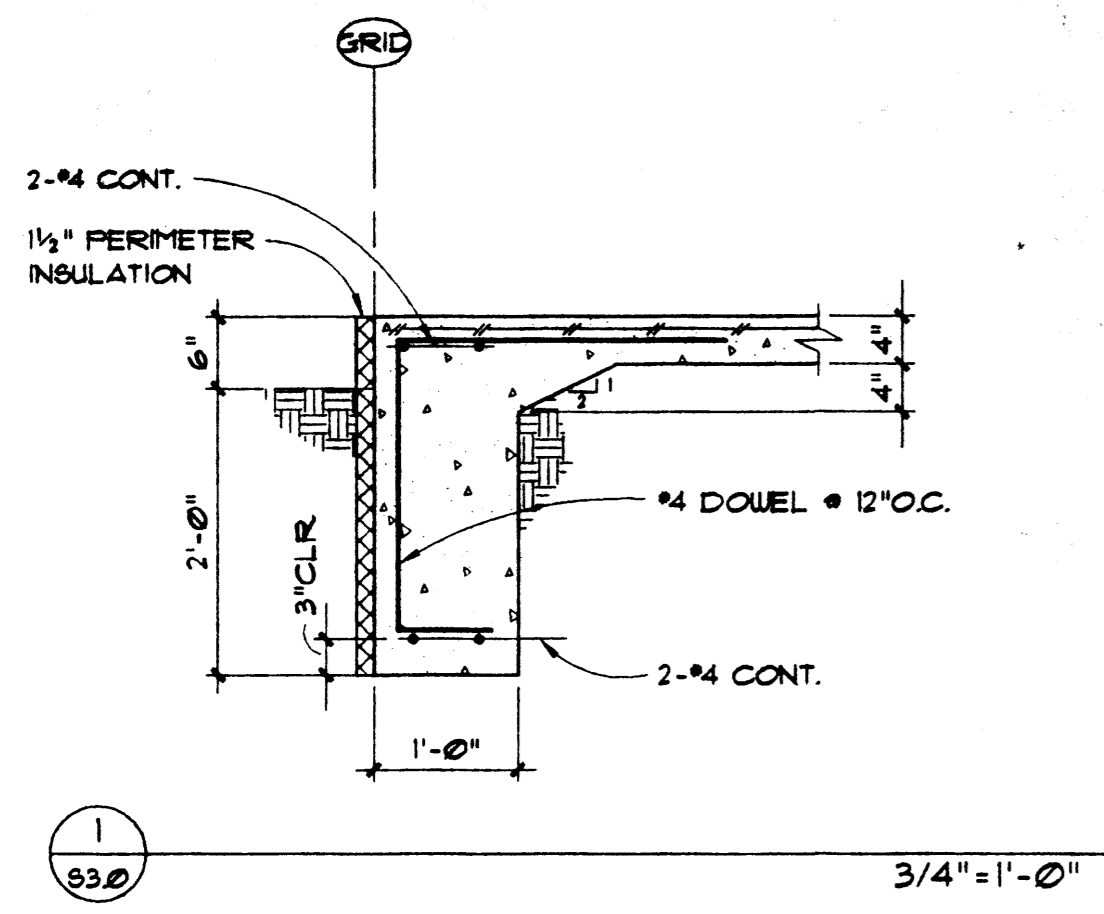
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ROOF FRAMING PLAN 1/8" = 1'-0"

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 Project #: _____
 Date: _____

ROOF FRAMING PLAN

By: _____ LEK
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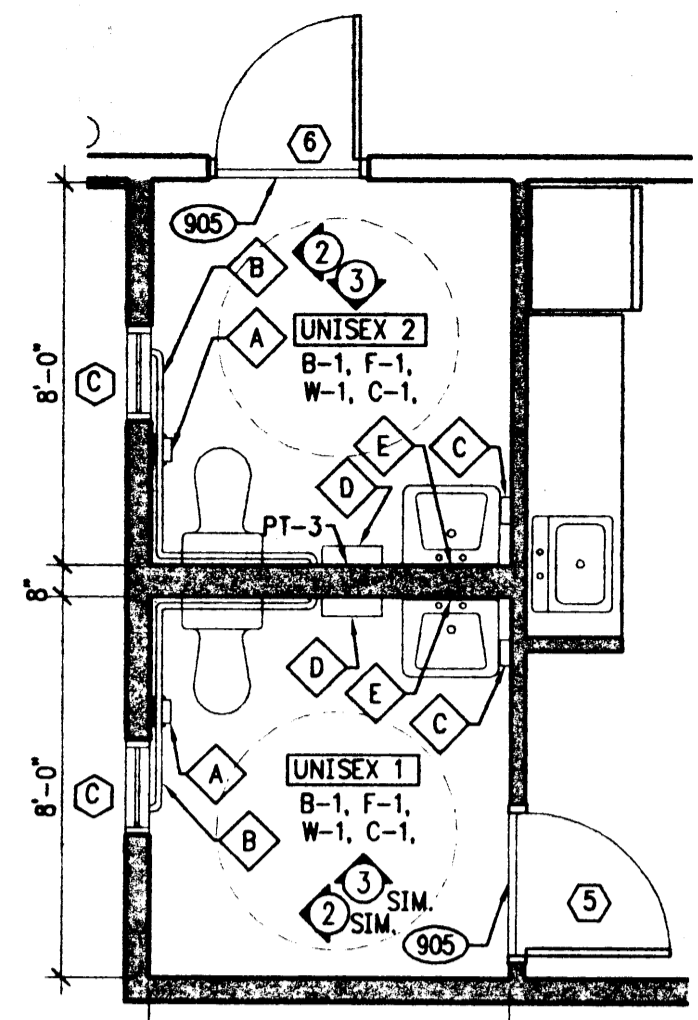
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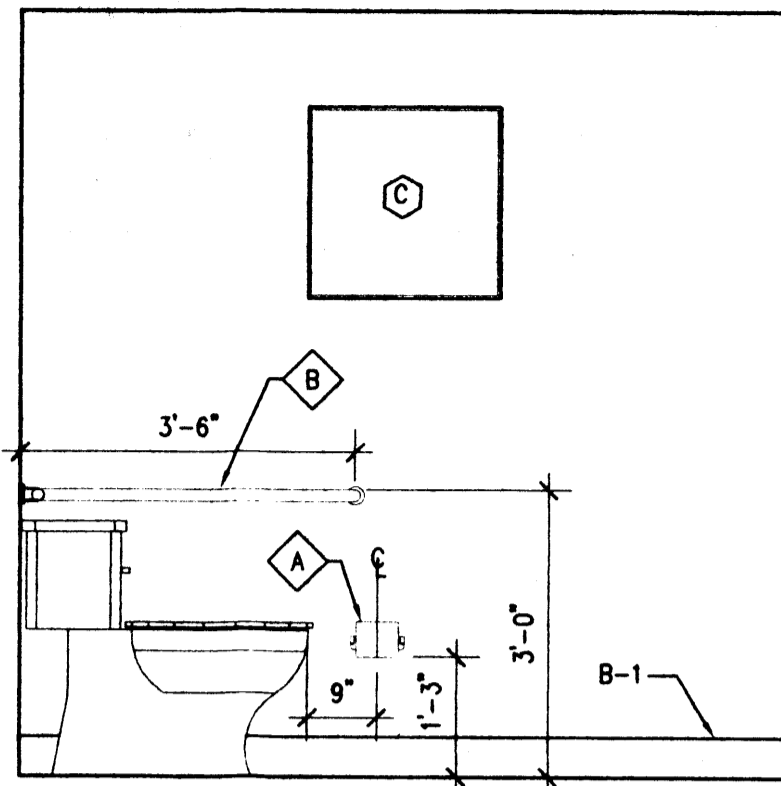
Professional Engineer
11838

PROJECT ARCHITECT: LEE GAMELSKY, AIA
Project #: _____
Date: _____

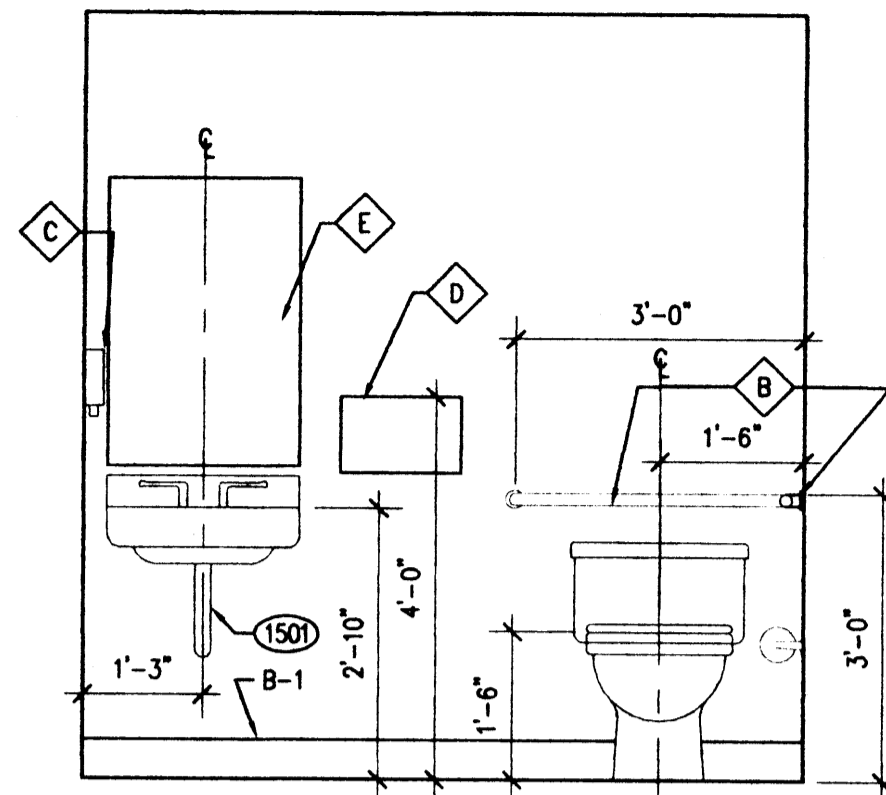
FOUNDATION & FRAMING DETAILS



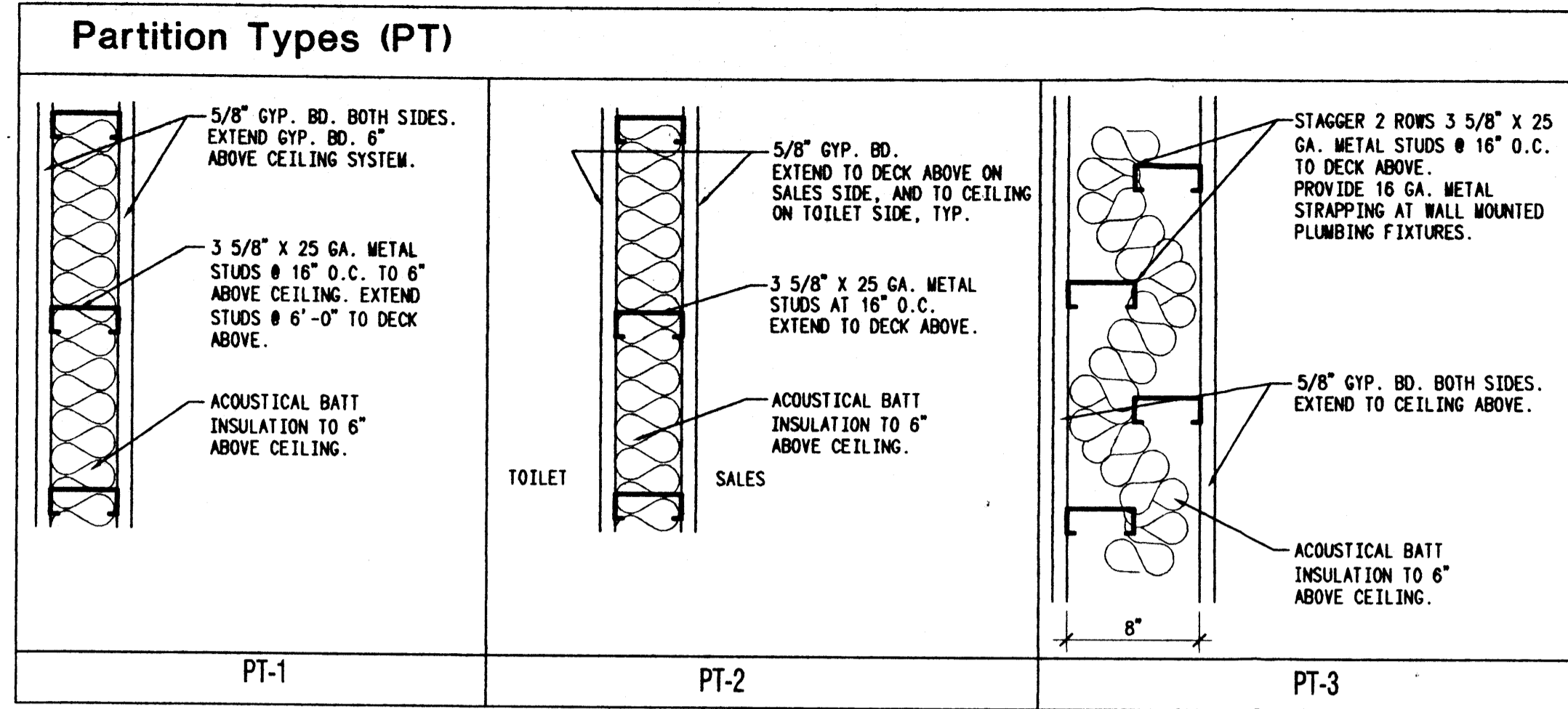
TOILET PLAN 1 1/4" - 1'-0"



ELEVATION 2 1/2" - 1'-0"



ELEVATION 3 1/2" - 1'-0"



GENERAL NOTES: PROVIDE WATER RESISTIVE GYP. BD. ON ALL PLUMBING WALLS, FLOOR TO CEILING.

General Notes

- A. GRID LINES ARE BASED ON PRE ENGINEERED METAL BUILDING CONSTRUCTION PACKAGE
- B. CONTRACTOR TO PROVIDE BLOCKING IN WALLS FOR ALL MILLWORK, FIXTURES, AND TOILET ACCESSORIES. COORDINATE QUANTITY, SIZES AND LOCATION OF BLOCKING REQUIRED.
- C. ALL DIMENSIONS TO FACE OF STEEL STUDS UNLESS OTHERWISE NOTED.

Keyed Notes

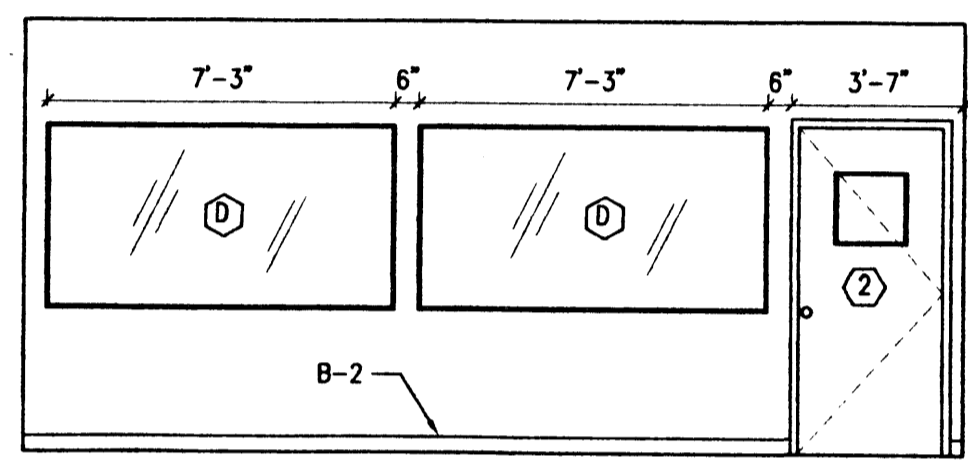
- 201 REFERENCE CORNER FOR LAYING OUT BUILDING. SEE SITE PLAN AND DETAIL.
- 501 DASHED LINE INDICATES METAL CANOPY ABOVE.
- 601 34" HIGH DISPLAY COUNTER.
- 602 4" HIGH TOE KICK.
- 701 SKYLIGHT ABOVE.
- 901 PLASTIC LAMINATE CLAD CABINET (OVER 3/4" HDBI). COUNTERTOPS, BACK AND SIDE SPLASH, NOSINGS. 24" DEEP COUNTERTOP/ BASE CABINET. NOT USED.
- 903 4" HIGH BACK SPLASH.
- 904 ADJUSTABLE SHELF WITH LAMINATE FINISH.
- 905 RUBBER TRANSITION STRIP.
- 906 NORTH WALL OF WAREHOUSE TO BE 1 HOUR FIRE RATED AS PER GA NO. WP 1200. SEE WALL SECTIONS.
- 1001 2A-100C WALL MOUNTED FIRE EXTINGUISHER.
- 1501 PROVIDE PIPE WRAPPING AT ALL SUPPLY AND DRAIN PIPES, TYPICAL.

Accessories Schedule

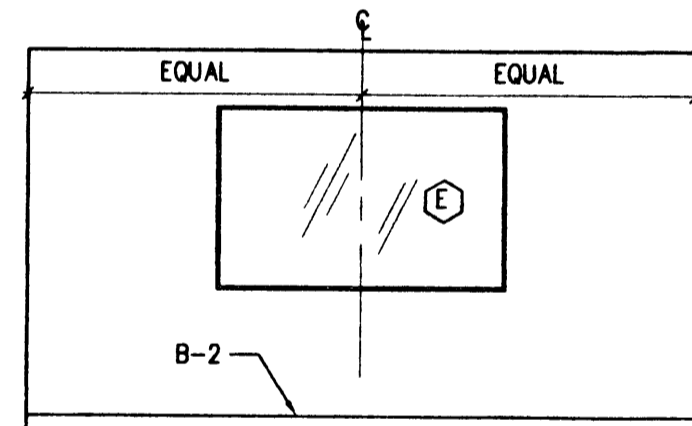
- A. TOILET PAPER DISPENSER.
- B. 1 1/2" x 42" AND 36" LONG STAINLESS STEEL GRAB BAR SET.
- C. SOAP DISPENSER.
- D. PAPER TOWEL DISPENSER.
- E. MIRROR. 24" x 36"

Finish Schedule

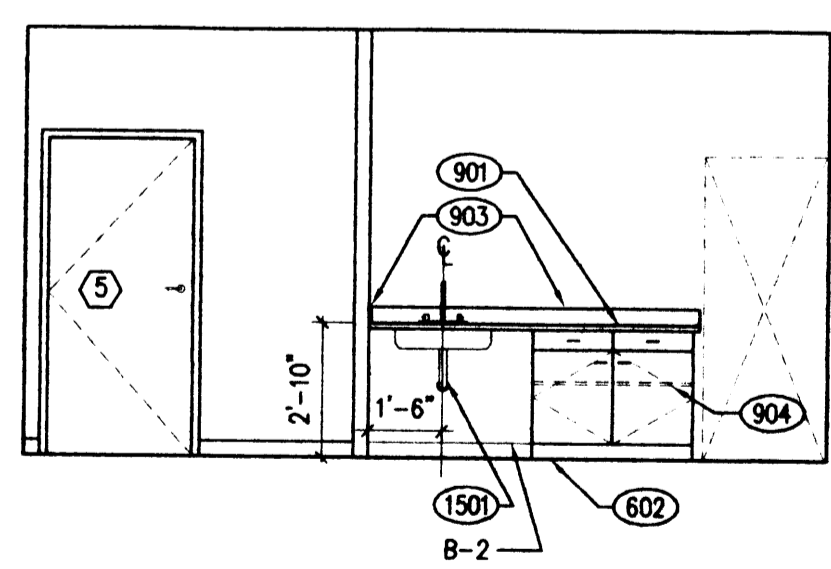
- BASE**
- B-1 6" RESILIENT VINYL COVE BASE.
 - B-2 4" RESILIENT VINYL COVE BASE.
- FLOORS**
- F-1 12"x12"x1/8" VCT (2 COLORS PATTERN).
 - F-2 EXPOSED CONCRETE, SEALED.
- WALLS**
- W-1 TAPE, BED, GYP. BD., PRIME AND PAINT, GLOSS ENAMEL.
 - W-2 TAPE, BED, GYP. BD., PRIME AND PAINT, SEMI-GLOSS.
 - W-3 TAPE, BED, GYP. BD. DO NOT PAINT.
 - W-4 EXPOSED STRUCTURE/ INSULATION. DO NOT PAINT.
- CEILING**
- C-1 TAPE, BED, PRIME, PAINT GYP. BD., GLOSS ENAMEL.
 - C-2 2"x4" LAY-IN ACOUSTIC CEILING TILE SYSTEM. WHITE GRID.
 - C-3 EXPOSED STRUCTURE/ INSULATION. DO NOT PAINT.



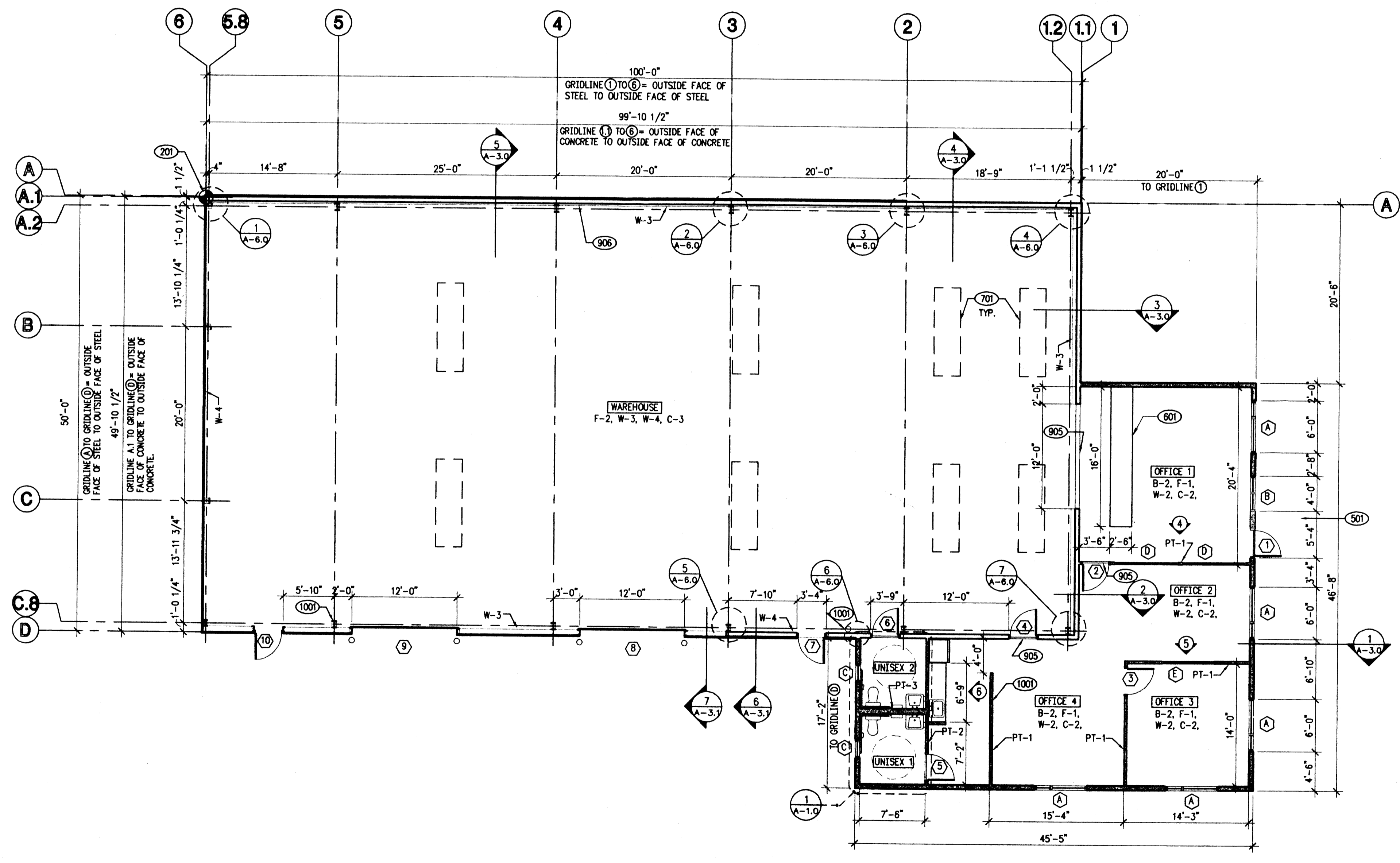
ELEVATION 4 1/4" - 1'-0"



ELEVATION 5 1/4" - 1'-0"



ELEVATION 6 1/4" - 1'-0"



FLOOR PLAN 1/8" - 1'-0"

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STATE OF NEW MEXICO

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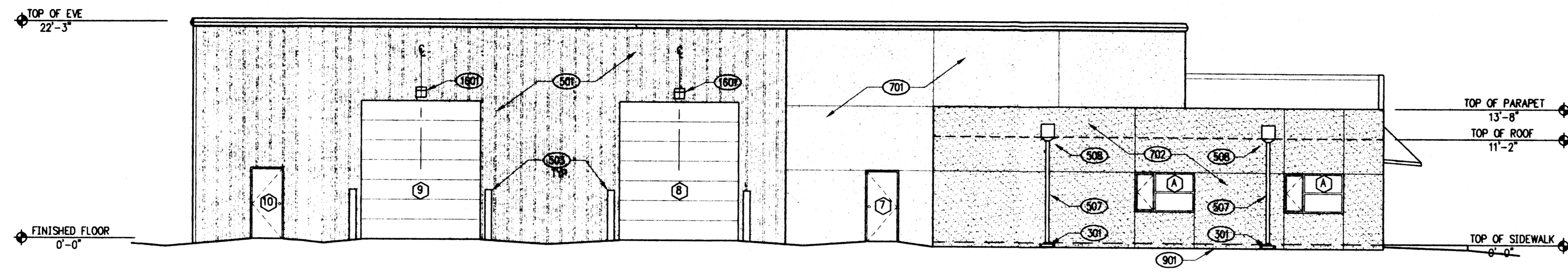
PROJECT ARCHITECT: LEE GAMESKY, AIA Project #: Date: FEBRUARY, 2001

FLOOR PLAN

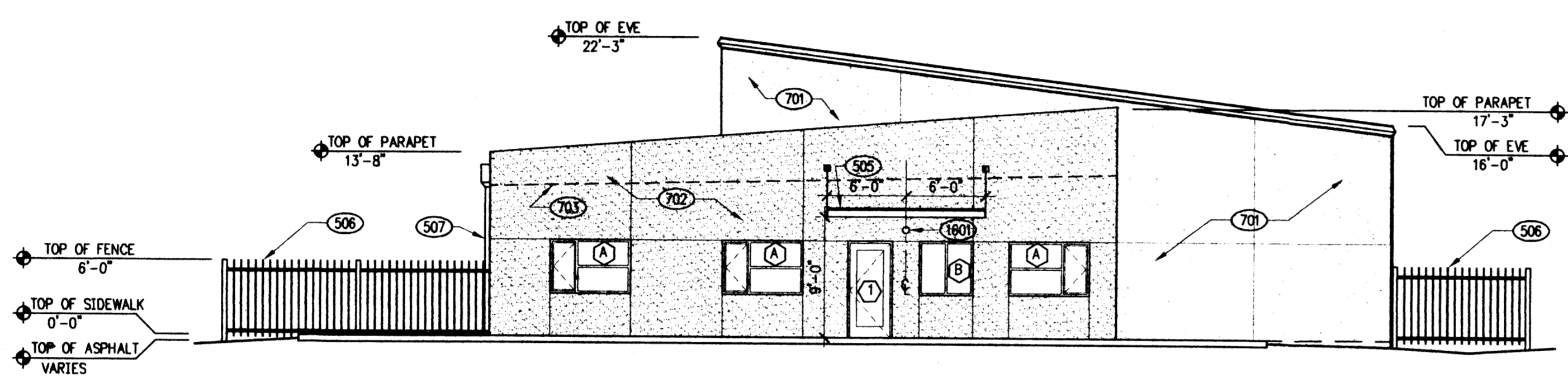
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Keyed Notes

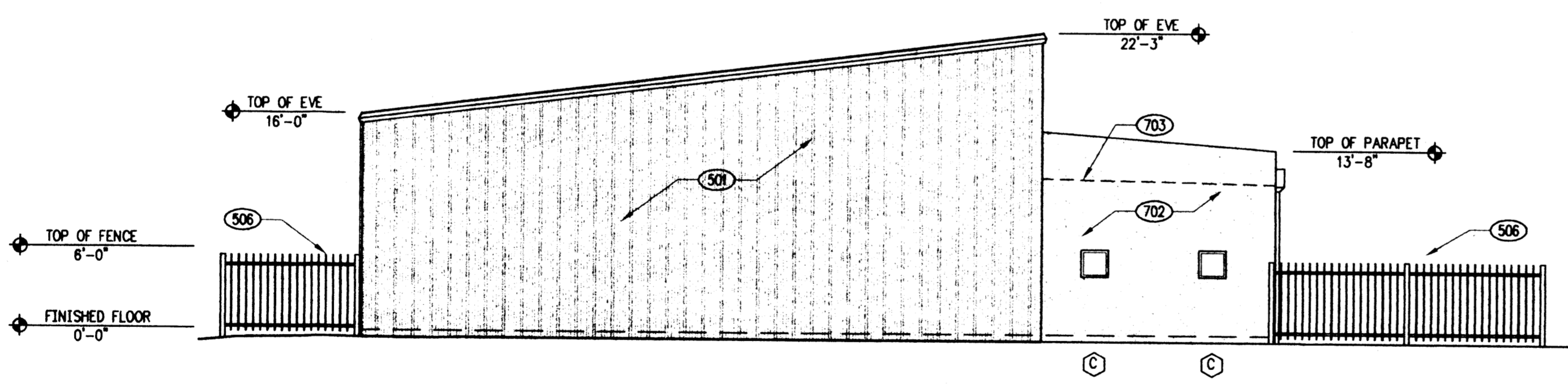
- 301 CONCRETE SPLASH BLOCKS TYPICAL, 12" X 36" AT ALL DOWNSPOUTS.
- 501 METAL BUILDING PANELS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
- 502 METAL BUILDING DOWNSPOUT. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE. (CRIMSON RED COLOR)
- 503 STEEL PIPE BOLLARD. SEE DETAIL 5/AS-101
- 505 STEEL CANOPY. SEE DETAIL C/A-3.1
- 506 TUBE STEEL FENCE.
- 507 GALVANIZED METAL DOWNSPOUT. SEE WALL SECTION 5/A3.0. MATCH COLOR OF STUCCO.
- 508 GALVANIZED METAL LEADER HEAD. SEE DETAIL B/A3.1. MATCH COLOR OF STUCCO.
- 701 3 COAT FACTORY BLENDED PORTLAND CEMENT STUCCO SYSTEM WITH ACRYLIC ELASTOMERIC FINISH (CRIMSON RED) OVER 1 1/2" X 17 GA. HEX. MESH OVER NO. 15 BUILDING PAPER.
- 702 2 COAT FIBER-REINFORCED PORTLAND CEMENT BASED THINCOAT STUCCO SYSTEM (COTTONWOOD COLOR BY EL REY STUCCO) OVER 1 1/2" X 20 GA. SELF FURRED NETTING OVER NO. 15 BUILDING PAPER.
- 703 DASHED LINE INDICATES ROOF BEYOND.
- 901 STUCCO EXPANSION JOINT AT FINISH FLOOR, TYP.
- 1601 LIGHT FIXTURE.



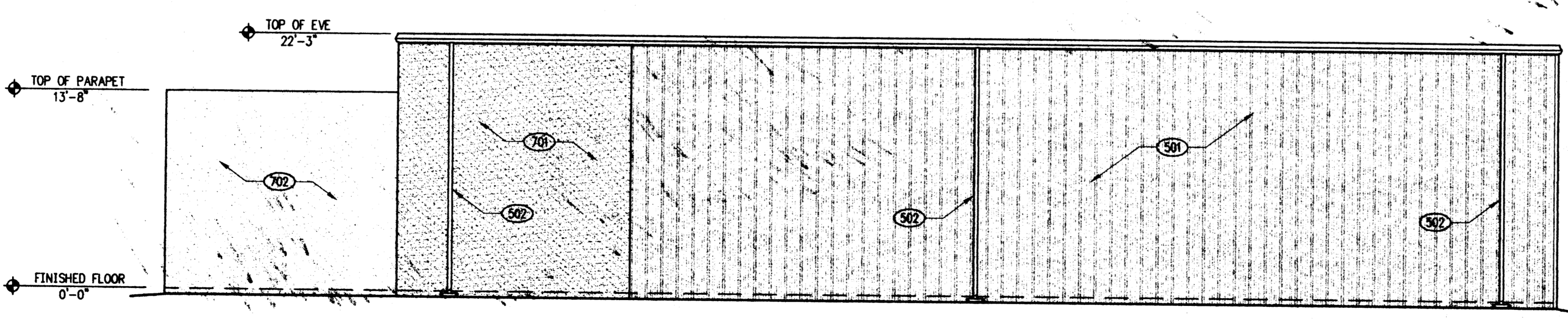
SOUTH ELEVATION 1/8"=1'-0"



EAST ELEVATION 1/8"=1'-0"



WEST ELEVATION 1/8"=1'-0"



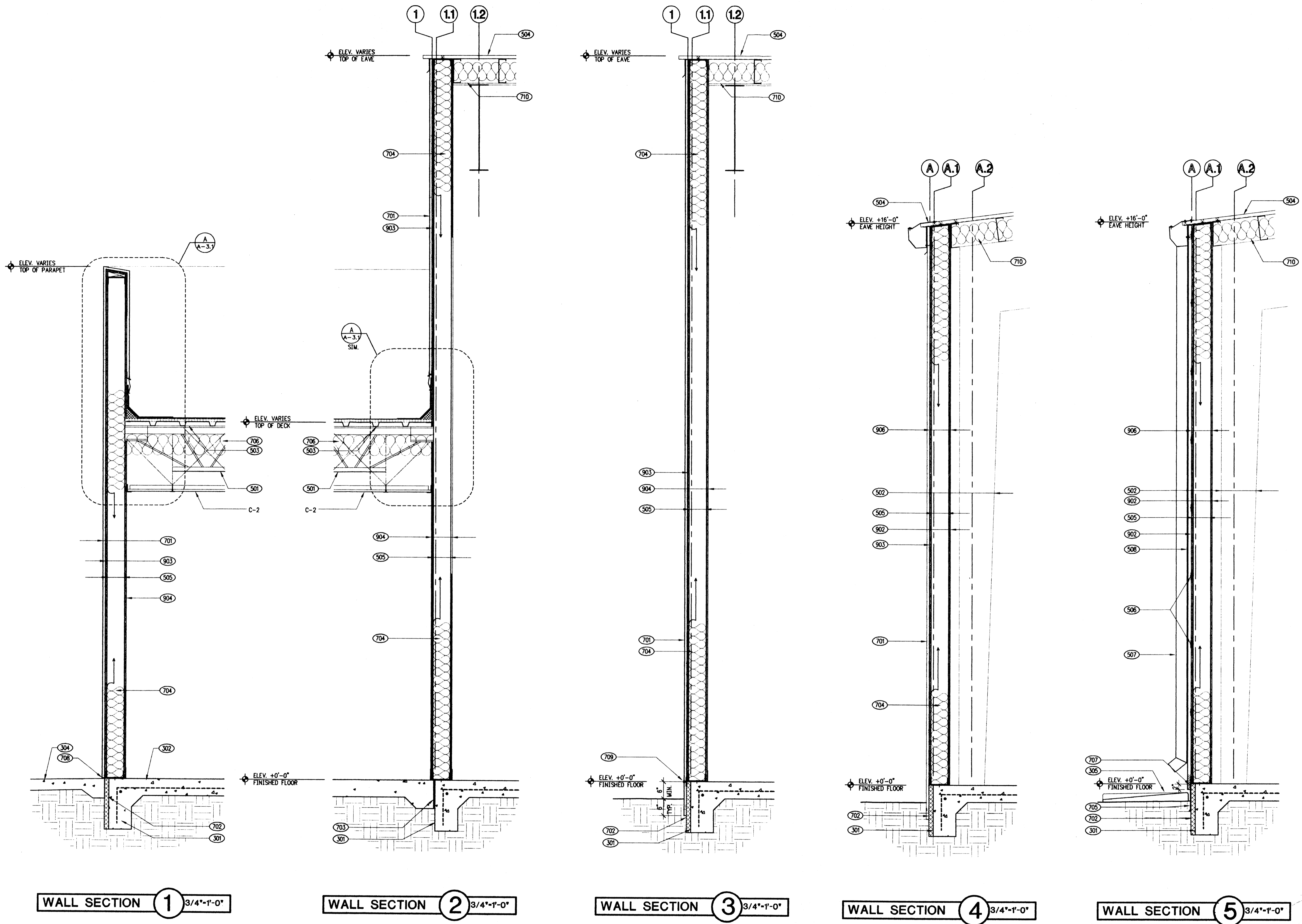
NORTH ELEVATION 1/8"=1'-0"

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PROJECT ARCHITECT: LEE GAMESKY, AIA Project #: lga
 Date: FEBRUARY, 2001

ELEVATIONS/SECTIONS

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- Keyed Notes**
- 301 CONCRETE FOOTING. SEE STRUCTURAL.
 - 302 CONCRETE SLAB. SEE STRUCTURAL.
 - 304 CONCRETE SIDEWALK. SEE CIVIL.
 - 305 CONCRETE SPLASH BLOCKS TYPICAL, 12 X 36 AT ALL DOWNSPOUTS.
 - 501 STEEL JOIST. SEE STRUCTURAL.
 - 502 STEEL COLUMN BEYOND. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - 503 STEEL DECK. SEE STRUCTURAL.
 - 504 METAL ROOF. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE. (CRIMSON RED COLOR)
 - 505 STEEL STUD WALL. SEE STRUCTURAL.
 - 506 3" WIDE X 16 GA. HORIZONTAL METAL STRAPPING OVER GYP. BD. @ 24" O.C. ATTACH TO ALL STUDS.
 - 507 DOWN SPOUT BEYOND. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - 508 METAL WALL PANELS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - 509 ATTACH METAL WALL PANELS TO METAL STRAPPING.
 - 701 STUCCO FINISH SYSTEM. SEE BUILDING ELEVATIONS.
 - 702 1 1/2" THICK EXPANDED POLYSTYRENE INSULATION BOARD, R=10 MIN.
 - 703 NO. 30 FELT.
 - 704 R=19 UNFACED FIBERGLASS BATT INSULATION.
 - 705 20 GA. GALVANIZED SHEET METAL PERIMETER FLASHING. OVER EXPOSED PERIMETER INSULATION.
 - 706 R=30 FIBERGLASS BATT INSULATION. WIRE IN PLACE.
 - 707 EXPANSION FOAM AT METAL WALL PANELS. EXTEND DOWN OVER PERIMETER INSULATION.
 - 708 STUCCO STOP AND SEALANT ALONG PERIMETER. TYP.
 - 709 STUCCO EXPANSION JOINT. TYPICAL AT FIN. FLOOR LOCATIONS.
 - 710 R-11 VINYL FACED FIBERGLASS BATT INSULATION.
 - 901 3 5/8" 25GA. METAL STUDS @ 16" O.C.
 - 902 5/8" TYPE "X" GYP. BOARD W/ NO. 15 FELT. TYP. @ 1 HOUR LOCATION.
 - 903 5/8" EXTERIOR GYP. BOARD SHEATHING.
 - 904 5/8" GYP. BOARD.
 - 905 FINISHED CEILING AS SCHEDULED.
 - 906 1 HOUR FIRE RATED WALL. GYPSUM ASSEMBLY NO. WP 1200.

WALL SECTION 1 3/4"-1'-0"

WALL SECTION 2 3/4"-1'-0"

WALL SECTION 3 3/4"-1'-0"

WALL SECTION 4 3/4"-1'-0"

WALL SECTION 5 3/4"-1'-0"

LEE GAMESKY ARCHITECT P.C.

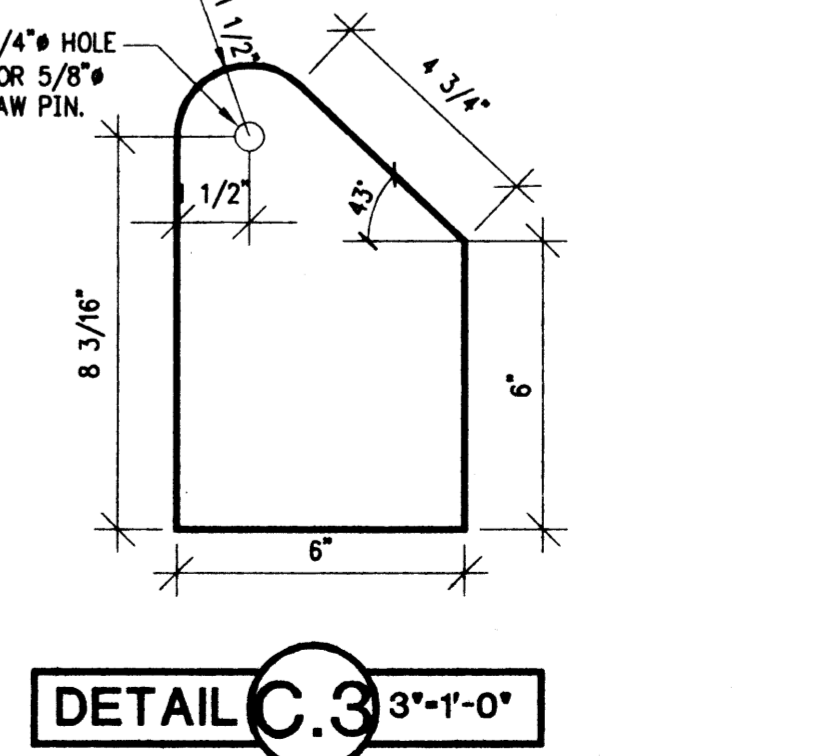
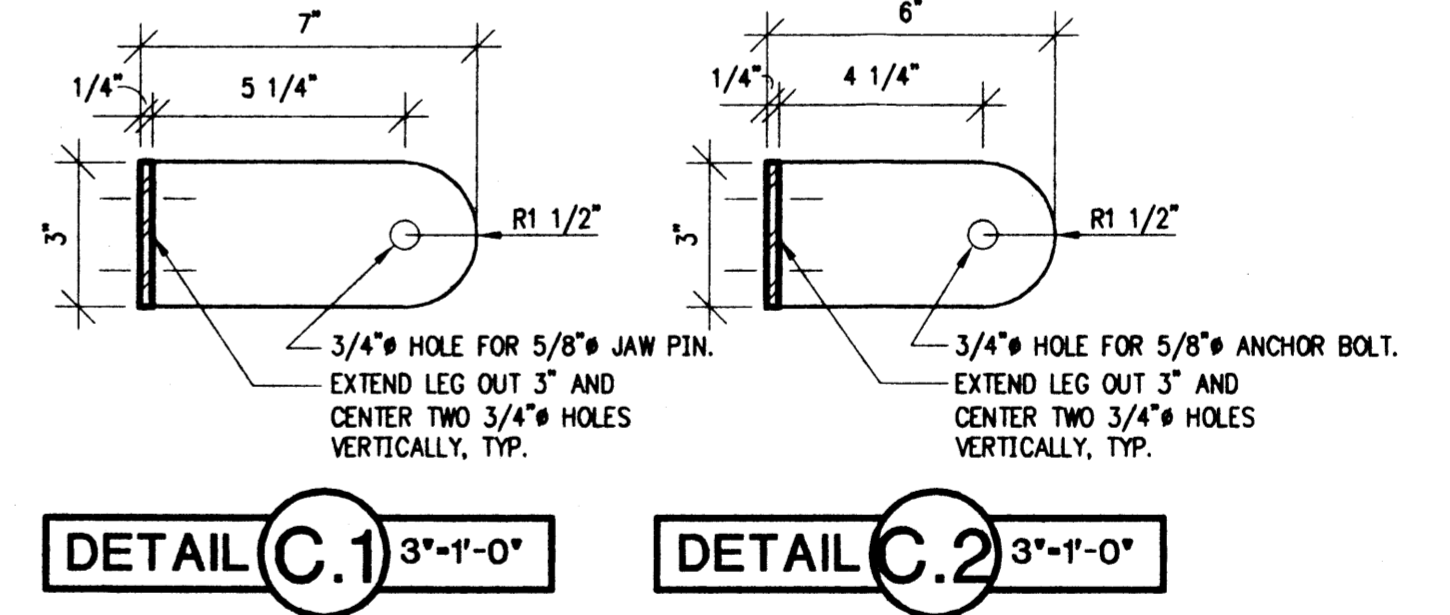
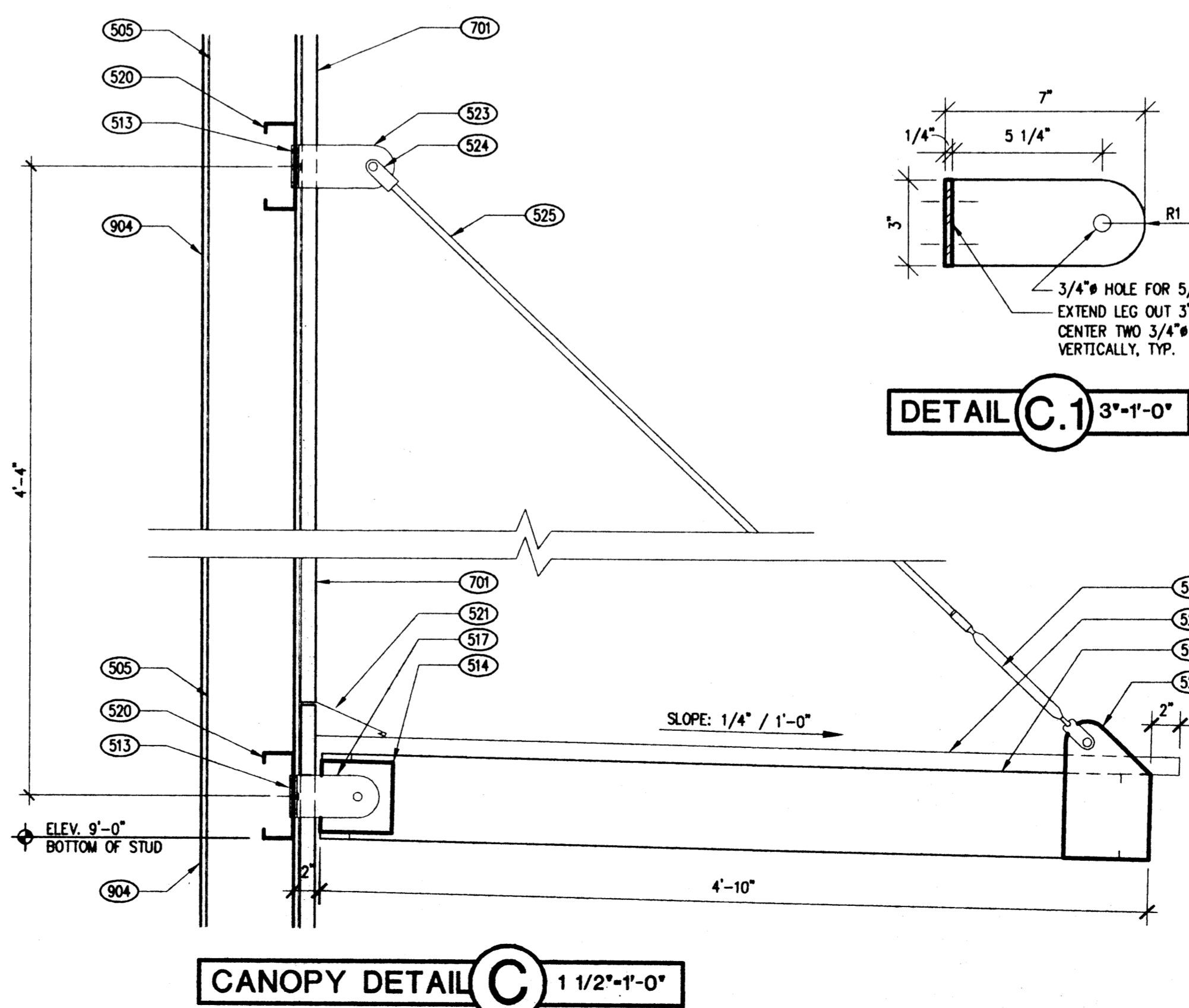
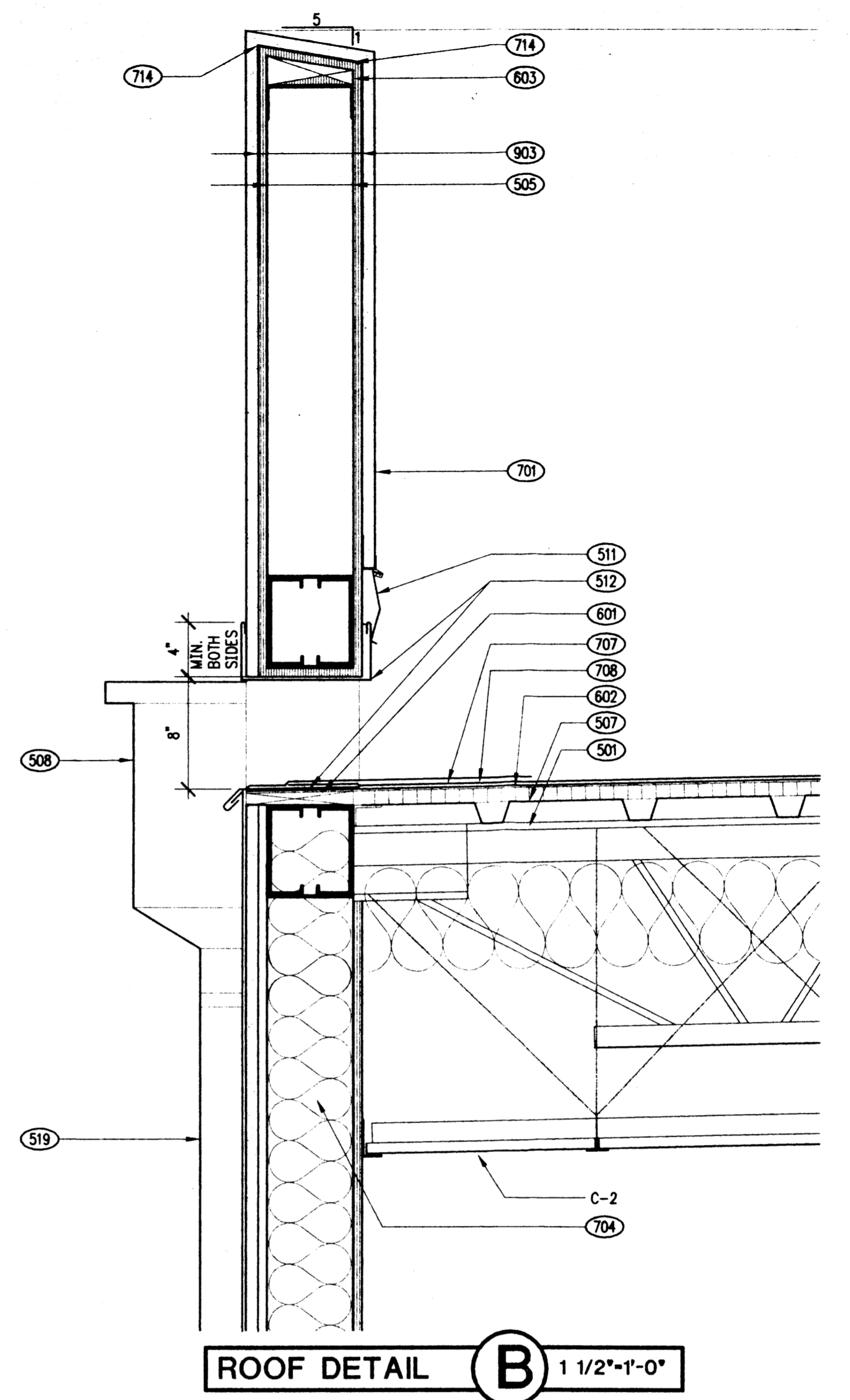
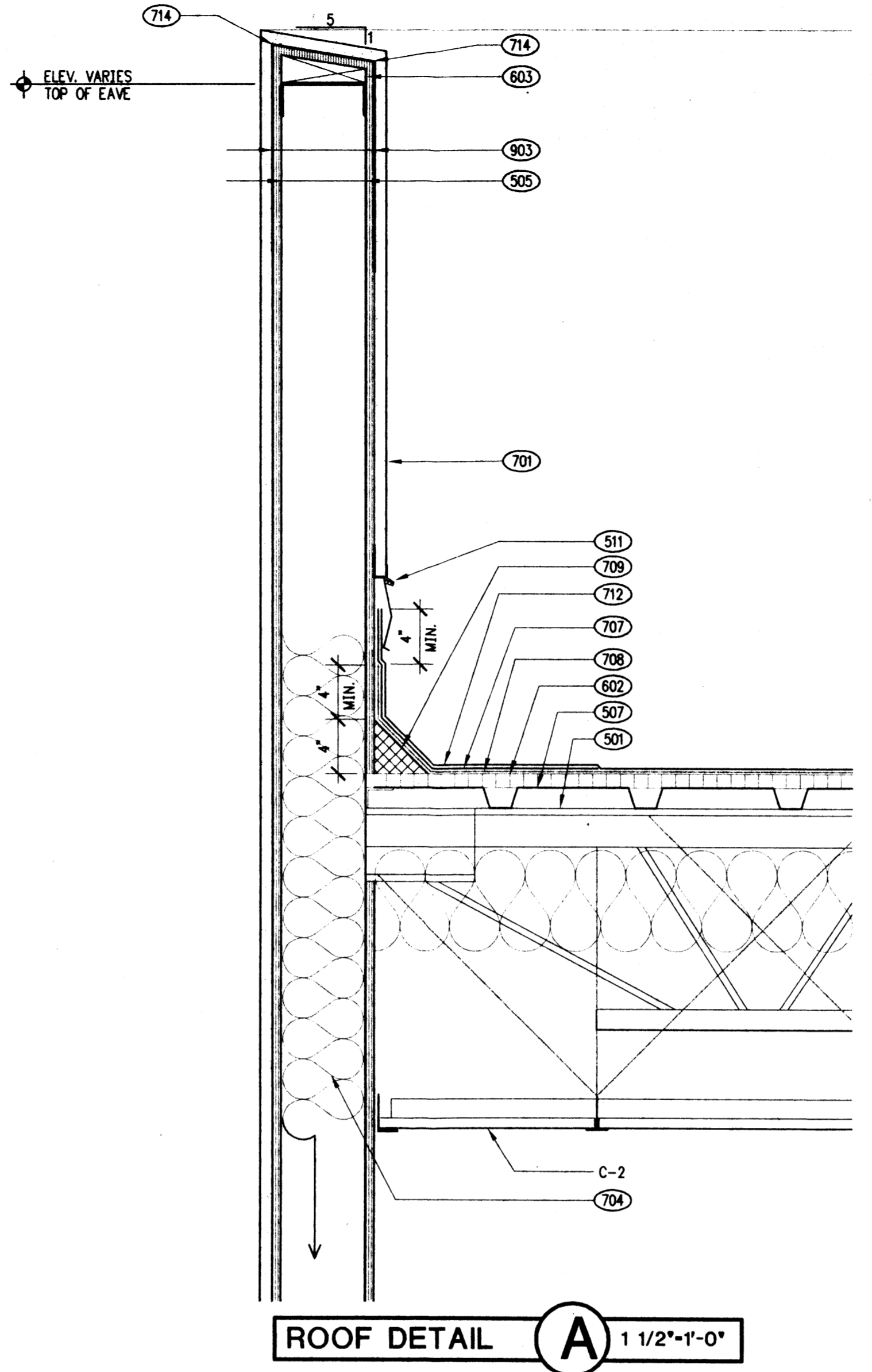
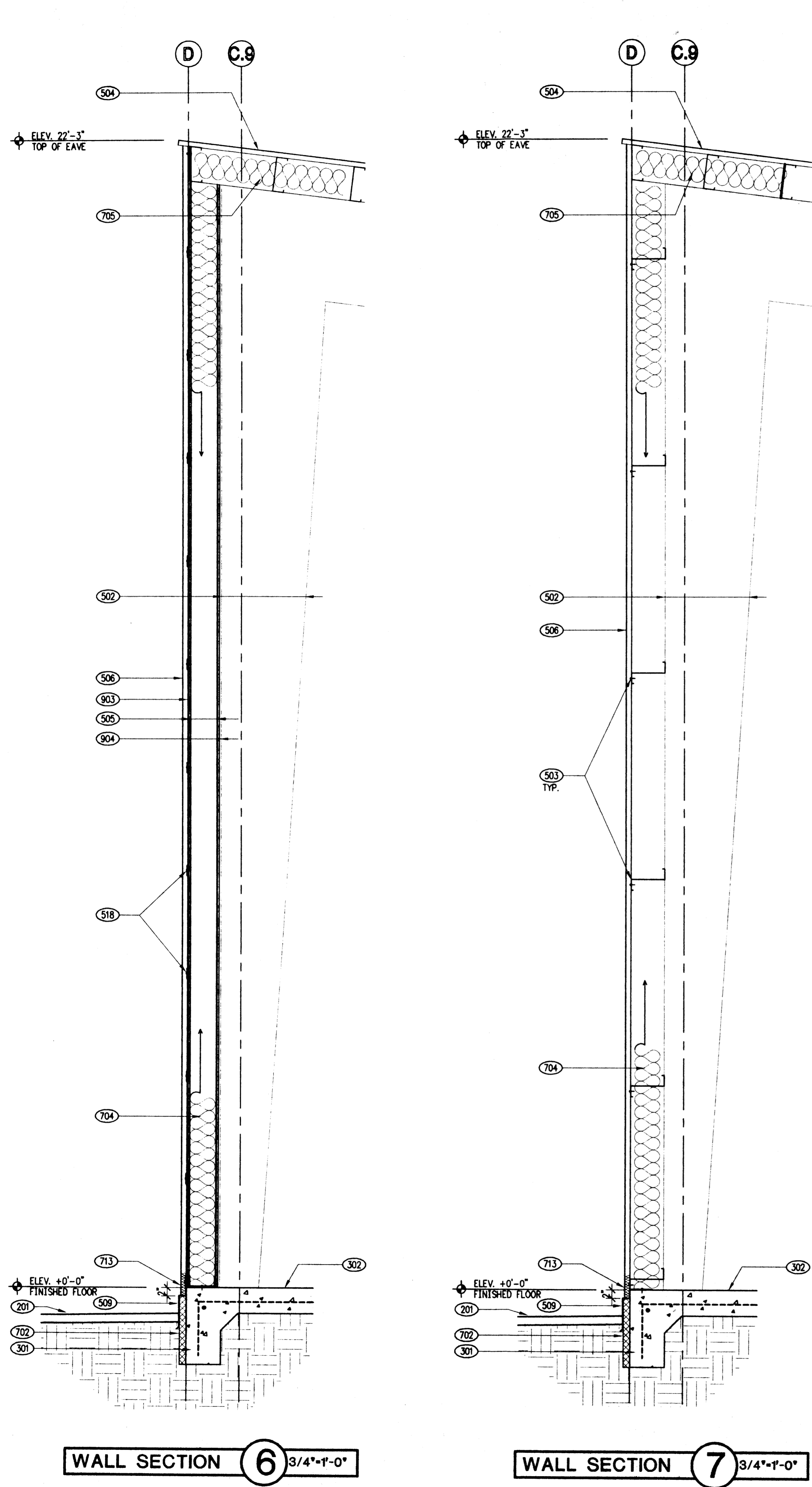
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STATE OF NEW MEXICO
LEE D. GAMESKY
No. 1933
REGISTERED ARCHITECT

MEEDER OFFICE WAREHOUSE

PROJECT ARCHITECT: LEE GAMESKY, AIA Project #: _____
Date: FEBRUARY, 2001

WALL SECTIONS



- General Notes**
- INSTALL ALL ROOFING, INSULATION, ACCESSORIES AND DETAILS STRICTLY PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND NRCA ROOFING AND WATERPROOFING MANUAL, CURRENT EDITION.
 - FABRICATE AND INSTALL ALL METAL ROOFING, GUTTERS, COLLECTOR BOXES, DOWN SPOUTS, FLASHING AND ACCESSORIES PER RECOMMENDATIONS OF SMACNA ARCHITECTURAL SHEET METAL MANUAL, CURRENT EDITION.
 - IMMEDIATELY NOTIFY ARCHITECT OF ANY CONFLICT BETWEEN ROOFING MANUFACTURER'S RECOMMENDATION FOR ANY GIVEN CONDITION AND ARCHITECT'S SPECIFICATION OF DETAIL.
 - ROOFING SYSTEM TO BE: APP OR SBS MODIFIED BITUMINOUS MEMBRANE ROOFING; INSTALL CAP SHEET OVER BASE SHEET OVER 1" WOOD FIBERBOARD AND OVER METAL DECK - FIRESTONE ROOFING SYSTEM OR EQUAL.

- Keyed Notes**
- ASPHALT PAVING. SEE SITE PLAN.
 - CONCRETE FOOTING. SEE STRUCTURAL.
 - CONCRETE SLAB. SEE STRUCTURAL.
 - STEEL JOIST. SEE STRUCTURAL.
 - STEEL COLUMN BEYOND. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - GIRT. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - METAL ROOF PANEL. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE. (GRINSON RED COLOR)
 - STEEL STUDS. SEE STRUCTURAL.
 - METAL WALL PANEL SIDING. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - 1 1/2" METAL DECK. - SEE STRUCTURAL DRAWINGS.
 - 16" WIDE X 16" H X 8" DEEP X 24 GA. GALV. METAL CONDUCTOR HEAD W/ OVERFLOW. ATTACH TO WALL WITH METAL STRAPPING. PRIME AND PAINT TO MATCH WALL COLOR.
 - 20 GA. GALVANIZED SHEET METAL PERIMETER FLASHING.
 - GALVANIZED METAL STUCCO STOP.
 - 2 PART 26 GA. GALVANIZED METAL COUNTER FLASHING SYSTEM. INCLUDING STUCCO REGLET AND INSERT STYLE COUNTER FLASHING. PROVIDE CLIP SUPPORTS FOR THE COUNTER FLASHING AT 4'-0" O.C. MAX.
 - THRU WALL SCUPPER CONNECTOR W/TOP AND SIDE WALL FLANGES.
 - 3" X 3" X 1/4" STEEL PLATE. WELD TO INSIDE FACE OF HORIZONTAL STUDS AT EACH TOP AND BOTTOM CANOPY CONNECTION. VERIFY LOCATION IN FIELD (4 TOTAL).
 - 5" X 5" X 1/4" STEEL PLATE. WELD TO OUTSIDE FACE OF STUDS AT OUTSIDE EDGES OF CANOPY. CENTER PLATES WITHIN STUDS.
 - 6" X 18 GA. METAL STUD CANOPY. WELD STUDS TOGETHER AT 16" O.C. WITH THE LEGS FACING INWARD AT ALL PERIMETERS. PRIME AND PAINT. SEE REFLECTED CEILING PLAN FOR FRAMING LAYOUT.
 - GALVANIZED STEEL JAW TO SWAGE TURNBUCKLE W/ 5/8" PIN. (TWO TOTAL)
 - 1/4" STEEL BENT PLATE CUT AS SHOWN - SEE DETAIL C.2 BELOW (TWO TOTAL). ATTACH DIRECTLY TO 3" X 3" STEEL PLATE WITHIN THE STUD WALL WITH TWO 5/8" MACHINE BOLTS W/ LOCKING WASHER AND NUTS. VERIFY LOCATION IN FIELD.
 - 3" WIDE X 16 GA. HORIZONTAL METAL STRAPPING OVER GYP. BD. @ 24" O.C. ATTACH TO ALL STUDS.
 - GALVANIZED METAL DOWNSPOUT ATTACHED TO WALL W/ METAL STRAPPING AT 24" O.C. TYP.
 - 6" X 18 GA. STEEL HORIZONTAL STUD. ATTACH BETWEEN VERTICAL WALL STUDS. COORDINATE LOCATION WITH CANOPY ANCHORS. VERIFY IN FIELD.
 - GALVANIZED METAL FLASHING ALONG ENTIRE LENGTH OF CANOPY. TYP.
 - 1/4" STEEL PLATE CUT AS SHOWN. SEE DETAIL C.3. (TWO TOTAL)
 - 1/4" STEEL BENT PLATE CUT AS SHOWN. SEE DETAIL C.1. ATTACH TO 3" X 3" STEEL PLATE WITH TWO 5/8" MACHINE BOLTS WITH LOCKING WASHER AND NUTS. TYP (TWO TOTAL).
 - GALVANIZED STEEL TOGGLE JAW W/ 5/8" PIN (TWO TOTAL).
 - 1/2" GALVANIZED STEEL TIE ROD. VERIFY LENGTH IN FIELD.
 - METAL ROOF @ CANOPY TO MATCH THAT OF WAREHOUSE.
 - WOOD BLOCKING AS REQUIRED. (PRESSURE TREATED)
 - 1" WOOD FIBER RECOVERY BOARD OVER METAL DECK.
 - 2 X 6 RIPPED AS REQ.
 - STUCCO SYSTEM. SEE BUILDING ELEVATIONS.
 - 1 1/2" THICK, EXPANDED POLYSTYRENE INSULATION BOARD. R=10 MIN.
 - NOT USED.
 - R-19 FIBERGLASS BATT INSULATION.
 - R-11 VINYL FACED FIBERGLASS BATT INSULATION.
 - NOT USED.
 - MEMBRANE FLASHING. EXTEND 4" ABOVE CANT.
 - MODIFIED BITUMEN MEMBRANE ROOFING SYSTEM.
 - 4" CANT STRIP TYPICAL AT ALL ROOF TO PARAPET LOCATIONS. CANT STRIP TO BE SET IN HOT STEEP ROOF ASPHALT. ROOFING MASTIC, OR MECHANICALLY ATTACHED.
 - EXTEND ROOF MEMBRANE 5" (MIN.) INTO SCUPPER AND SEAL.
 - METAL STUCCO STOP.
 - COUNTER FLASHING. EXTEND 8" MIN. ABOVE CANT.
 - EXPANSION FOAM AT METAL WALL PANELS. EXTEND DOWN OVER PERIMETER INSULATION.
 - EXTRA LAYER OF NO. 30 FELT. EXTEND OVER PARAPET AND EXTEND DOWN EACH SIDE 16" MIN., TYP.
 - NOT USED.
 - 5/8" EXTERIOR GYP. BOARD SHEATHING.
 - 5/8" GYP. BOARD.
 - FINISHED CEILING AS SCHEDULED.

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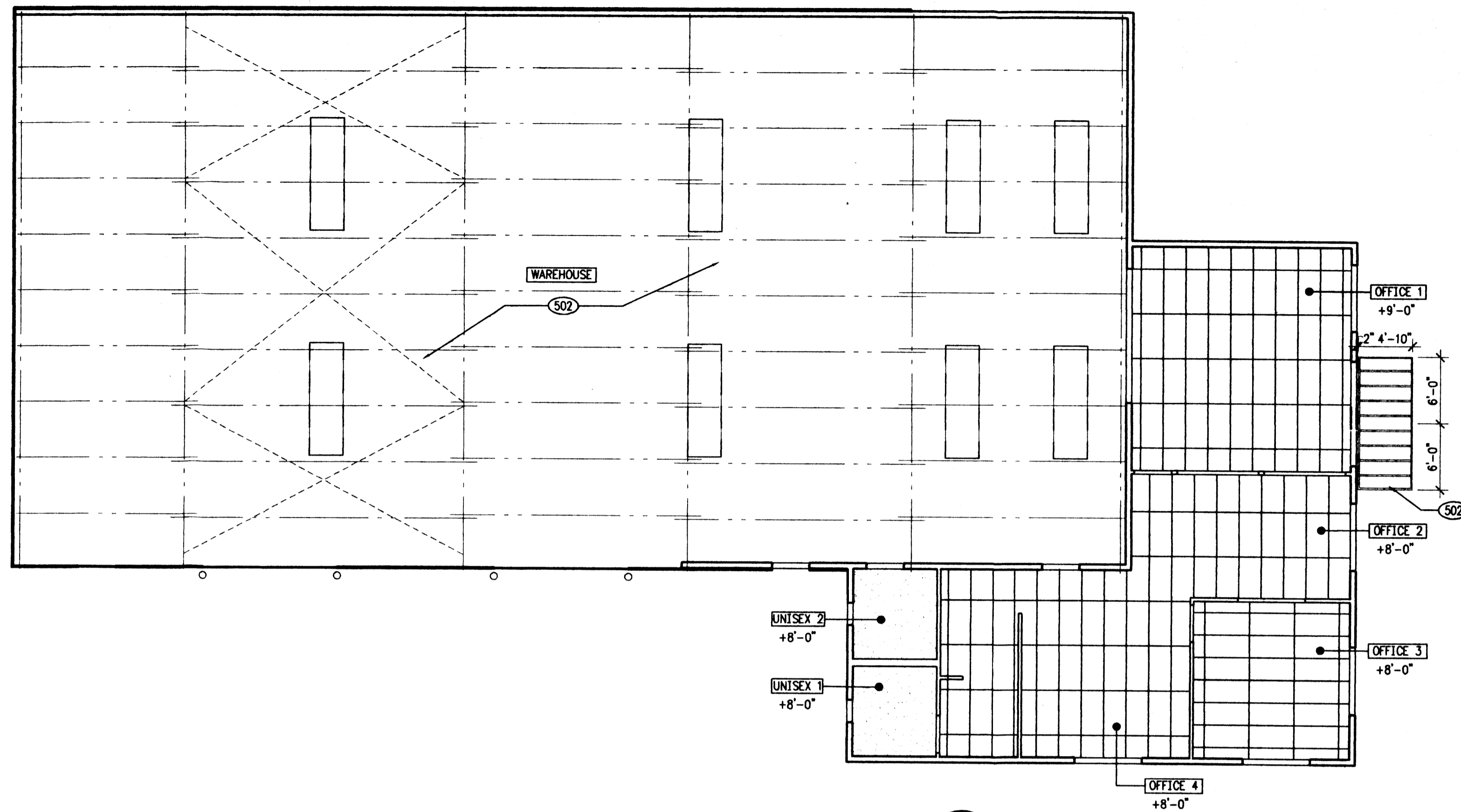
STATE OF NEW MEXICO
LEE D. GAMESKY
No. 1931
REGISTERED ARCHITECT

MEEDER OFFICE WAREHOUSE

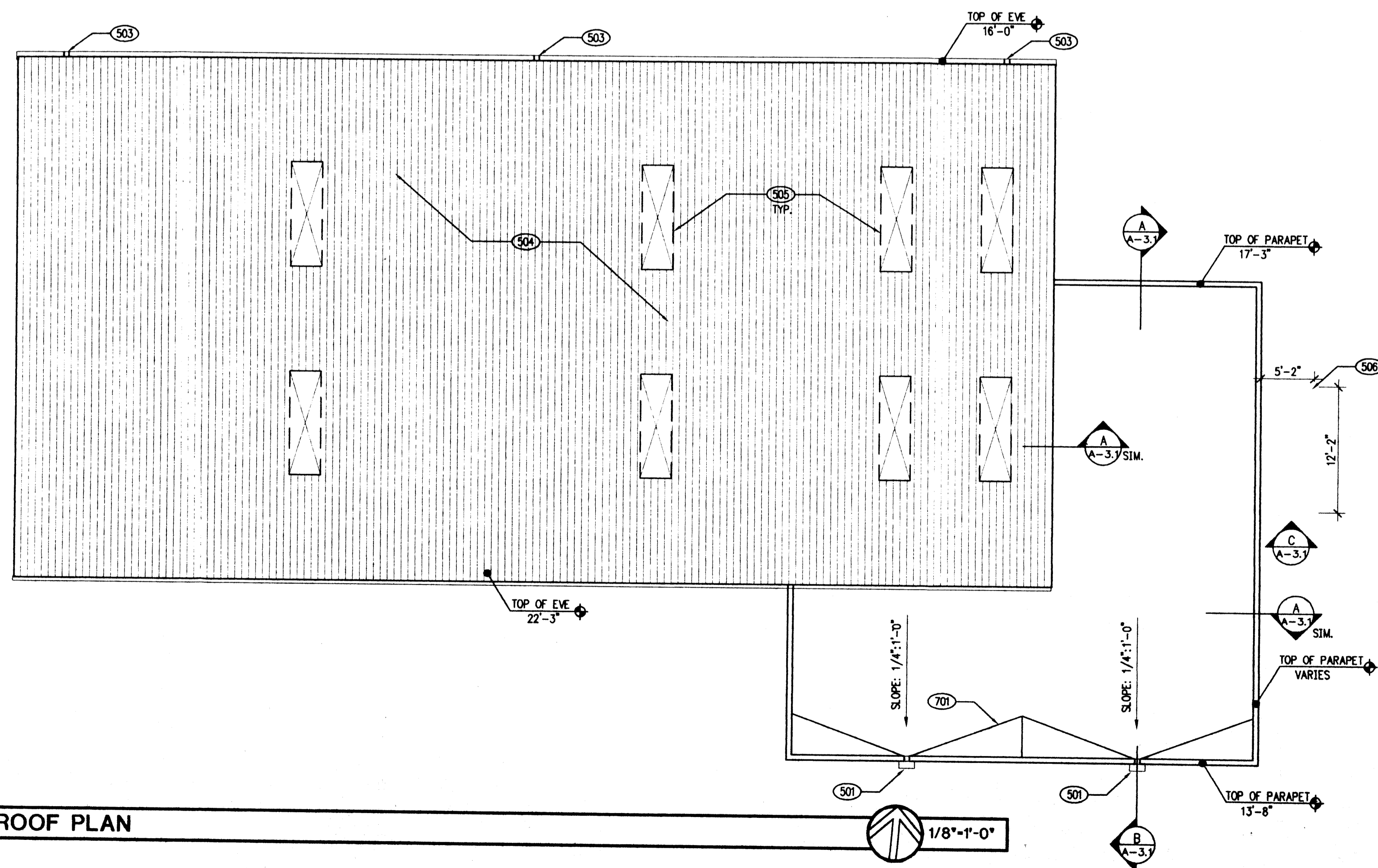
PROJECT ARCHITECT: LEE GAMESKY, AIA Project #: _____ Date: FEBRUARY, 2001

WALL SECTIONS
ROOF DETAILS

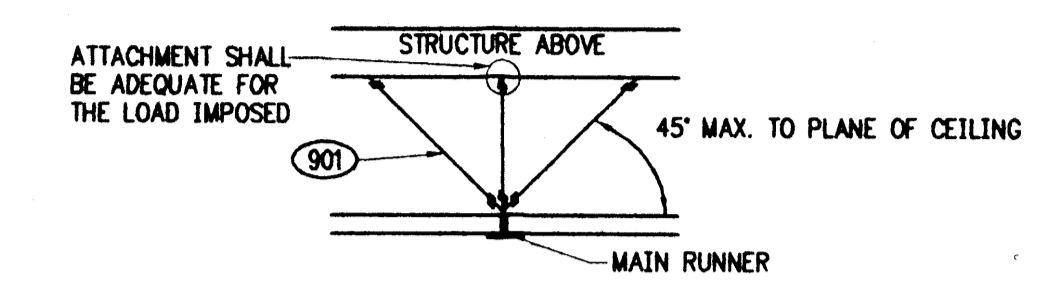
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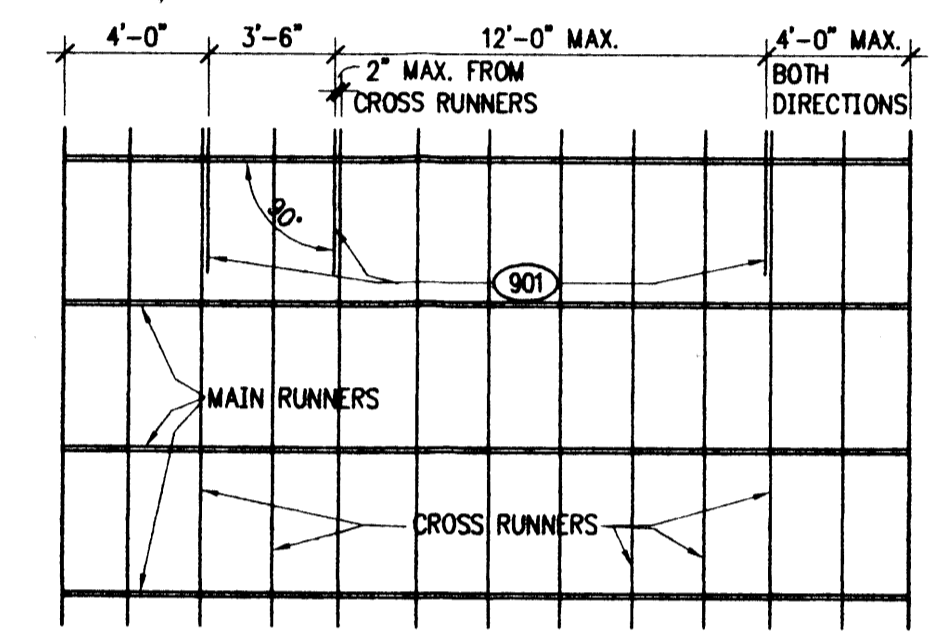
REFLECTED CEILING PLAN/ ROOF FRAMING PLAN OF WAREHOUSE 1/8"=1'-0"



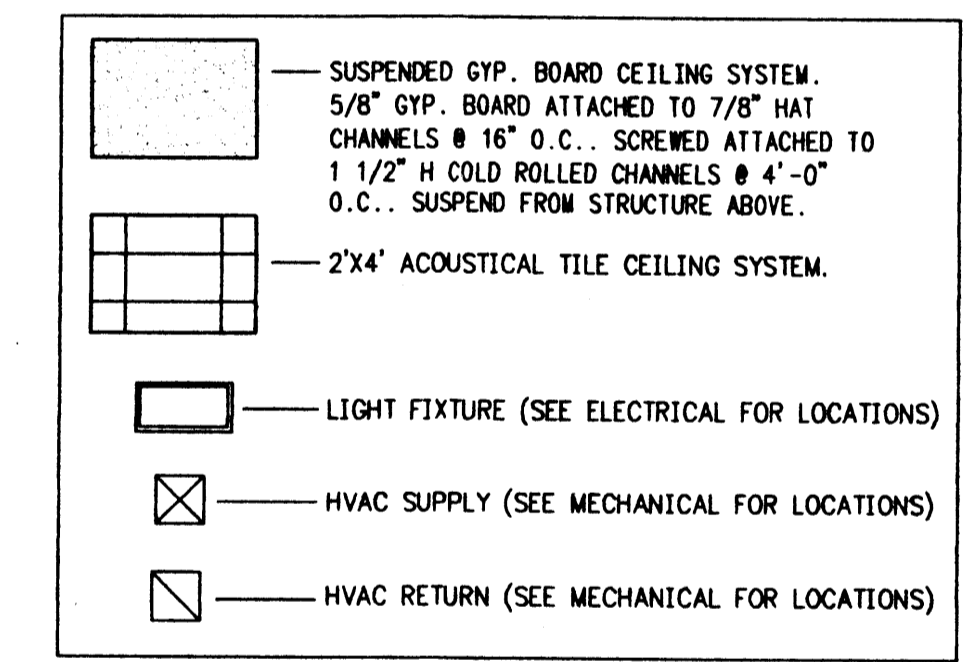
ROOF PLAN 1/8"=1'-0"



TYPICAL SEISMIC BRACING DETAIL AT SUSPENDED CEILING SYSTEM UBC STANDARD 25-2



RESTRAINT WIRES PER 25-A UBC



REFLECTED CEILING PLAN LEGEND

- General Notes**
- INSTALL ALL ROOFING, INSULATION, ACCESSORIES AND DETAILS STRICTLY PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND IRCA ROOFING AND WATERPROOFING MANUAL CURRENT EDITION.
 - ROOFING SYSTEM TO BE: APP OR SBS MODIFIED BITUMINOUS MEMBRANE ROOFING OVER BASE SHEET OVER WOOD FIBERBOARD AND OVER METAL DECK. - FIRESTONE ROOFING SYSTEMS OR EQUAL.
 - FABRICATE AND INSTALL ALL METAL ROOFING, GUTTERS, COLLECTOR BOXES, DOWN SPOUTS, FLASHING AND ACCESSORIES PER RECOMMENDATIONS OF SMACNA ARCHITECTURAL SHEET METAL MANUAL CURRENT EDITION.
 - IMMEDIATELY NOTIFY ARCHITECT OF ANY CONFLICT BETWEEN ROOFING MANUFACTURER'S RECOMMENDATION FOR ANY GIVEN CONDITION AND ARCHITECT'S SPECIFICATION OF DETAIL.
 - ROOF FRAMING PLAN IS BASED ON THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S INFORMATION.
 - ARROWS REPRESENT DIRECTION OF SLOPE TO DRAIN.
 - THE HEIGHT OF THE LAY-IN ACOUSTICAL TILE CEILING SYSTEM IS NOTED ON THE REFLECTED CEILING PLAN.
 - SEE SHEET A-1.0 FOR FINISH SCHEDULE.
 - FINISH FLOOR ELEVATION IS BASED ON 0'-0".

- Keyed Notes**
- GALVANIZED METAL SCUPPER BOX W/ OVERFLOW, 4" X 4" DOWNLEADER/DOWNSPOUT. SECURE PIPE TO WALL W/ BRACKETS AT 4'-0" O.C. MAX.
 - EXPOSED STRUCTURE @ UNDERSIDE OF CANOPY. 6" X 18GA. GALVANIZED STEEL STUD FRAMING. PRIME AND PAINT RED.
 - METAL GUTTER AND DOWN SPOUTS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - METAL ROOF PANELS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - SKYLIGHTS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
 - ENTRANCE CANOPY STEEL ROOF PANELS TO MATCH WAREHOUSE ROOF PANELS. OVERHANG FRAMING 2" ON EACH SIDE. SEE DETAIL C/A-3.1 FOR CANOPY DETAILS.
 - CRICKET, SLOPE AT 1/2" PER FOOT MIN. - WOOD FIBERBOARD OVER TAPERED INSULATION.
 - 12 GA. WIRE SUPPORTS AND BRACING AT 90" FROM MAIN RUNNERS. LOCATE AT MAXIMUM 12'-0" O.C. AT EACH RUNNER, WITHIN 2" OF CROSS RUNNER AND MAXIMUM 4'-0" FROM ENDS OF RUNNERS.

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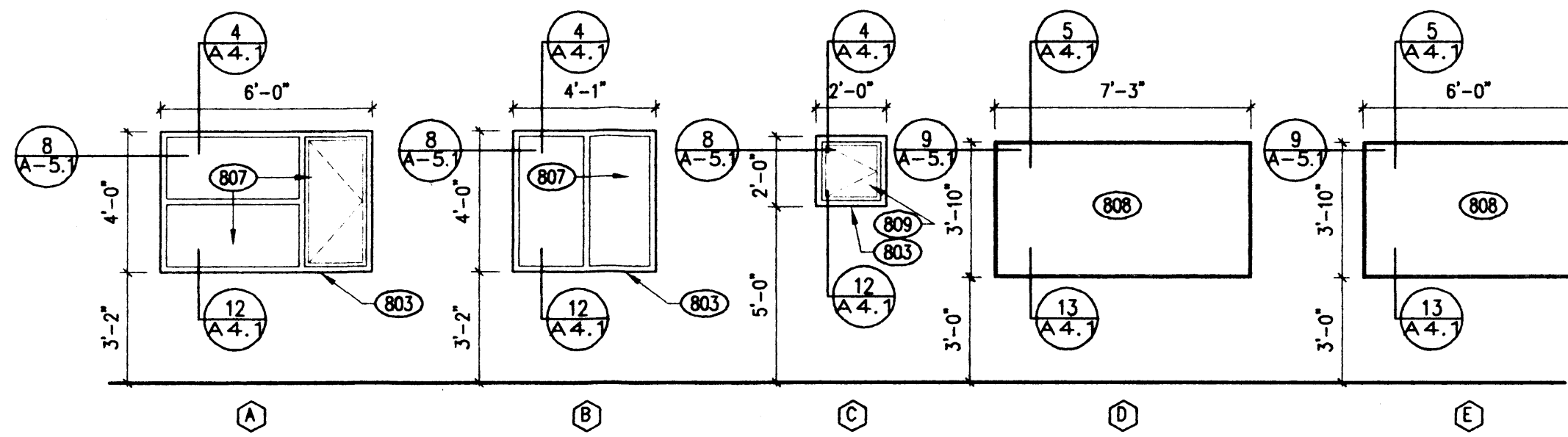
Project #: 199
Date: FEBRUARY, 2001

REFLECTED CEILING PLAN/
ROOF FRAMING PLAN

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HDW SET 1 DOOR NUMBER: 1 BUTTS 3 EA DEADBOLT 1 EA CYLINDER 1 EA LEVER STYLE LOCKSET 1 EA CLOSER 1 EA THRESHOLD 1 EA DOOR BOTTOM 1 EA WEATHERSTRIP 1 SET	HDW SET 3 DOOR NUMBER: 3 BUTTS 3 EA LOCKSET 1 EA WALL STOP 1 EA SILENCER 3 EA	HDW SET 5 DOOR NUMBER: 5 BUTTS 3 EA PRIVACY LATCHSET 1 EA WALL STOP 1 EA SILENCER 3 EA
HDW SET 2 DOOR NUMBER: 2 BUTTS 3 EA LATCHSET 1 EA WALL STOP 1 EA SILENCER 3 EA	HDW SET 4 DOOR NUMBER: 4 BUTTS 3 EA LOCKSET 1 EA CLOSER 1 EA KICKPLATE 1 EA WALL STOP 1 EA THRESHOLD 1 EA	HDW SET 6 DOOR NUMBER: 6 BUTTS 3 EA PRIVACY LATCHSET 1 EA WALL STOP 1 EA SILENCER 3 EA KICKPLATE 1 EA THRESHOLD 1 EA

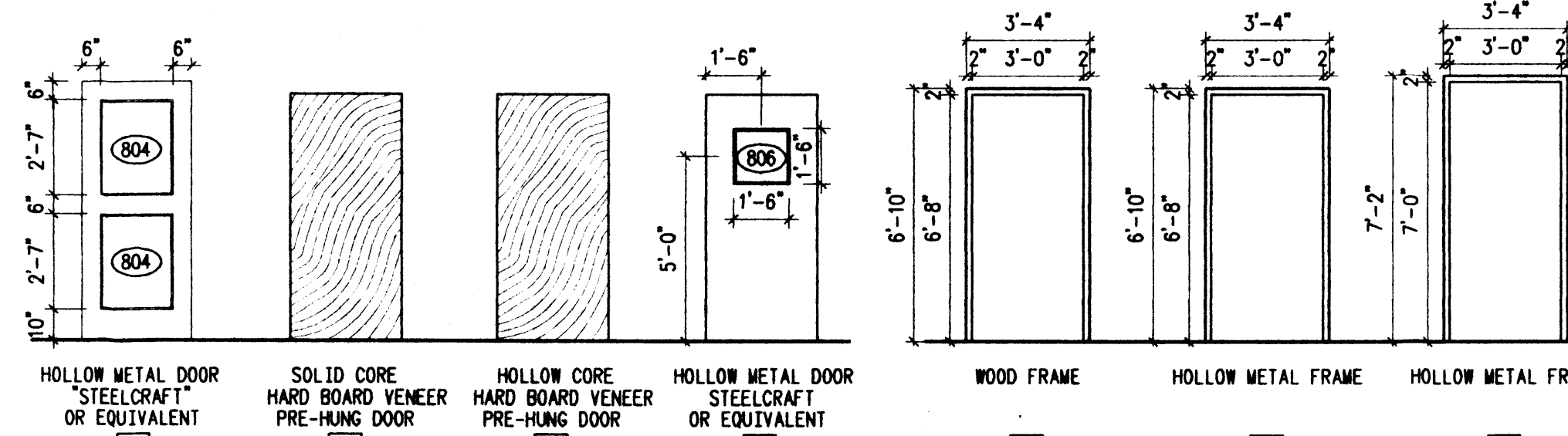
HARDWARE SCHEDULE



WINDOW ELEVATIONS 1 1/4" - 1'-0"

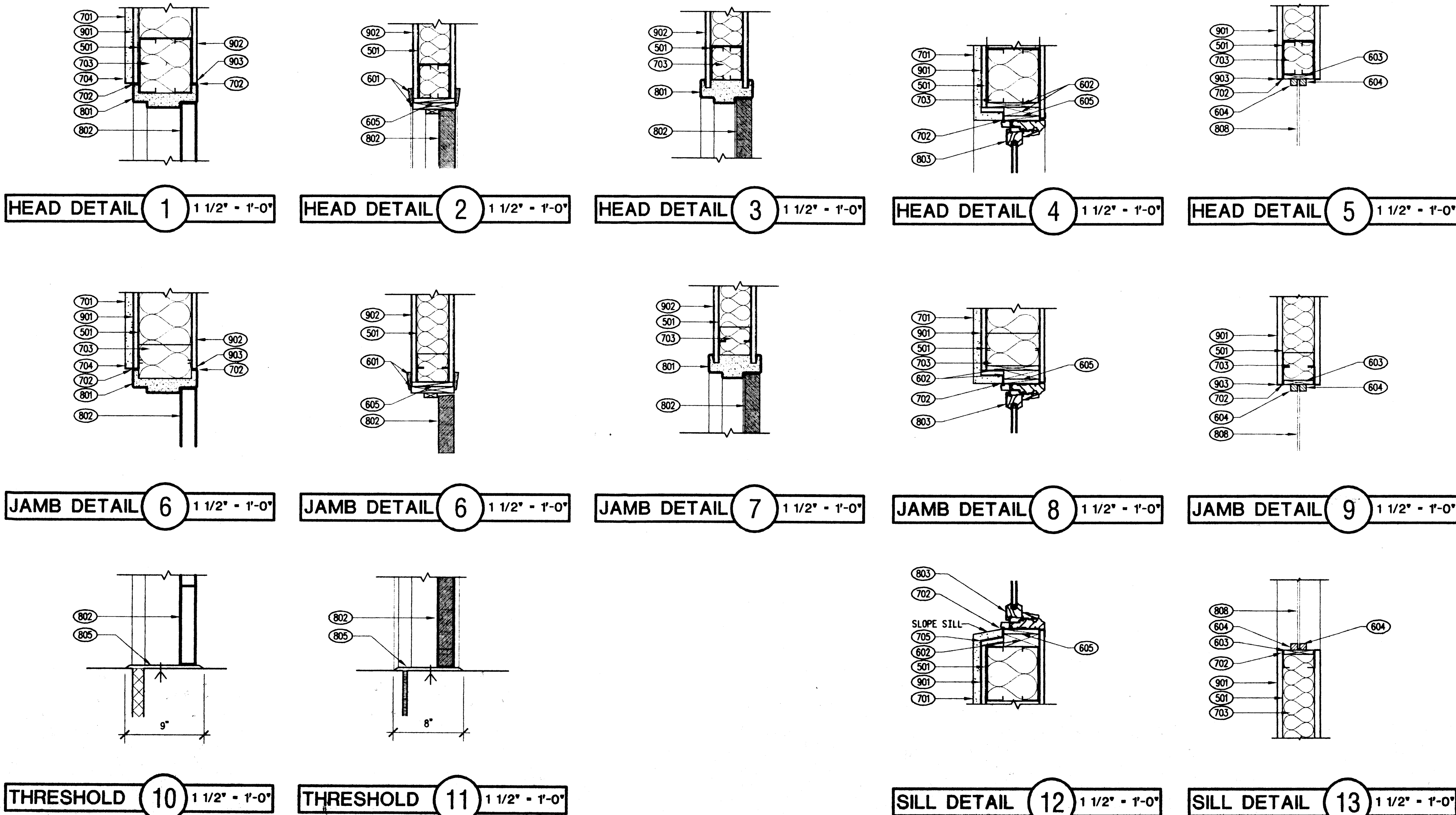
DOOR NUMBER	DOOR SIZE			TYPE	FINISH	GLASS	RATED	FRAME			HARDWARE SET NO.	REMARKS		
	W	H	T					TYPE	DETAIL					
									HEAD	JAMB			THRESH	
1	3'-0"	7'-0"	1-3/4"	A	PRIME & PAINT	●	-	3	1 A-5.0	6 A-5.0	10 A-5.0	1		
2	3'-0"	6'-8"	1-3/4"	D	PRIME & PAINT	●	-	2	3 A-5.0	7 A-5.0	-	2		
3	3'-0"	6'-8"	1-3/4"	C	PRIME & PAINT	●	-	1	2 A-5.0	6 A-5.0	-	3		
4	3'-0"	6'-8"	1-3/4"	B	PRIME & PAINT	●	-	1	2 A-5.0	6 A-5.0	11 A-5.0	4	▲	
5	3'-0"	6'-8"	1-3/4"	C	PRIME & PAINT	●	-	1	2 A-5.0	6 A-5.0	-	5		
6	3'-0"	6'-8"	1-3/4"	B	PRIME & PAINT	●	-	1	2 A-5.0	6 A-5.0	11 A-5.0	6	▲	
7	3'-0"	6'-8"	1-3/4"	DOOR AND FRAME SUPPLIED BY METAL BUILDING MANUFACTURER.										
8	OVERHEAD DOOR SUPPLIED BY METAL BUILDING MANUFACTURER.													
9	OVERHEAD DOOR SUPPLIED BY METAL BUILDING MANUFACTURER.													
10	3'-0"	6'-8"	1-3/4"	DOOR AND FRAME SUPPLIED BY METAL BUILDING MANUFACTURER.										

▲ PROVIDE THE FOLLOWING SIGN AT THESE DOORS. HANDICAPPED/BRAILLE TOILET ROOM SIGN. MOUNT ALONGSIDE THE DOOR ON LATCH SIDE, 60" A.F.F. MOUNT W/SIGN MANUFACTURERS STANDARD FOAM TAPE SYSTEM. SIGN SHALL INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBILITY, 'TOILET'. COMPLY WITH ANSI A 117.1-1992 4.2B.



DOOR ELEVATIONS 1/4" - 1'-0"

FRAME ELEVATIONS 1/4" - 1'-0"



Keyed Notes

- 501 3 5/8" OR 6" STEEL STUD WALL. SEE PARTITION SCHEDULE OR STRUCTURAL DRAWINGS.
- 601 WOOD DOOR FRAME.
- 602 BLOCKING AS REQUIRED.
- 603 1" X FINISHED GRADE WOOD. PRIME AND PAINT, TYP.
- 604 3/4" X 3/4" WOOD STOP. PRIME AND PAINT.
- 605 WOOD SHIM AS REQUIRED.
- 701 3 COAT STUCCO SYSTEM.
- 702 SEALANT.
- 703 BATT INSULATION.
- 704 STUCCO STOP.
- 705 EXTRA LAYER OF NO. 30 FELT.
- 801 HOLLOW METAL FRAME. COORDINATE THROAT SIZE WITH STUD SIZE. GROUT SOLID.
- 802 DOOR AS SCHEDULED.
- 803 "SEMCO" CLAD CASEMENT WINDOW. PRIME AND PAINT.
- 804 3/4" INSULATED TEMPERED GLASS.
- 805 ALUMINUM THRESHOLD. SET IN BED OF SEALANT.
- 806 WIRE GLASS.
- 807 INSULATED GLASS.
- 808 1/4" TEMPERED GLASS.
- 809 INSULATED OPAQUE GLASS.
- 901 5/8" EXTERIOR GYP. BOARD SHEATHING.
- 902 5/8" GYP. BOARD.
- 903 "L" BEAD.

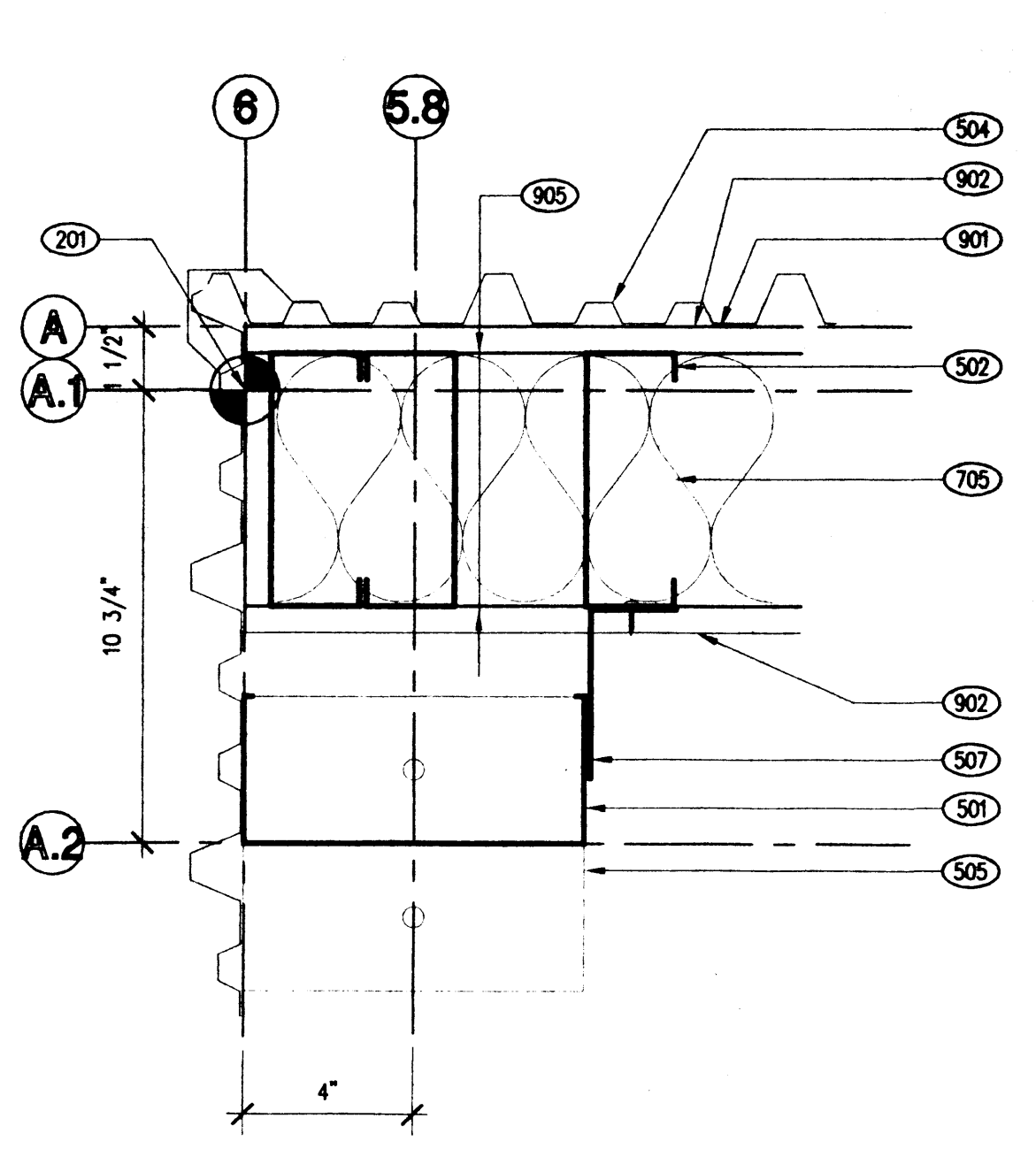
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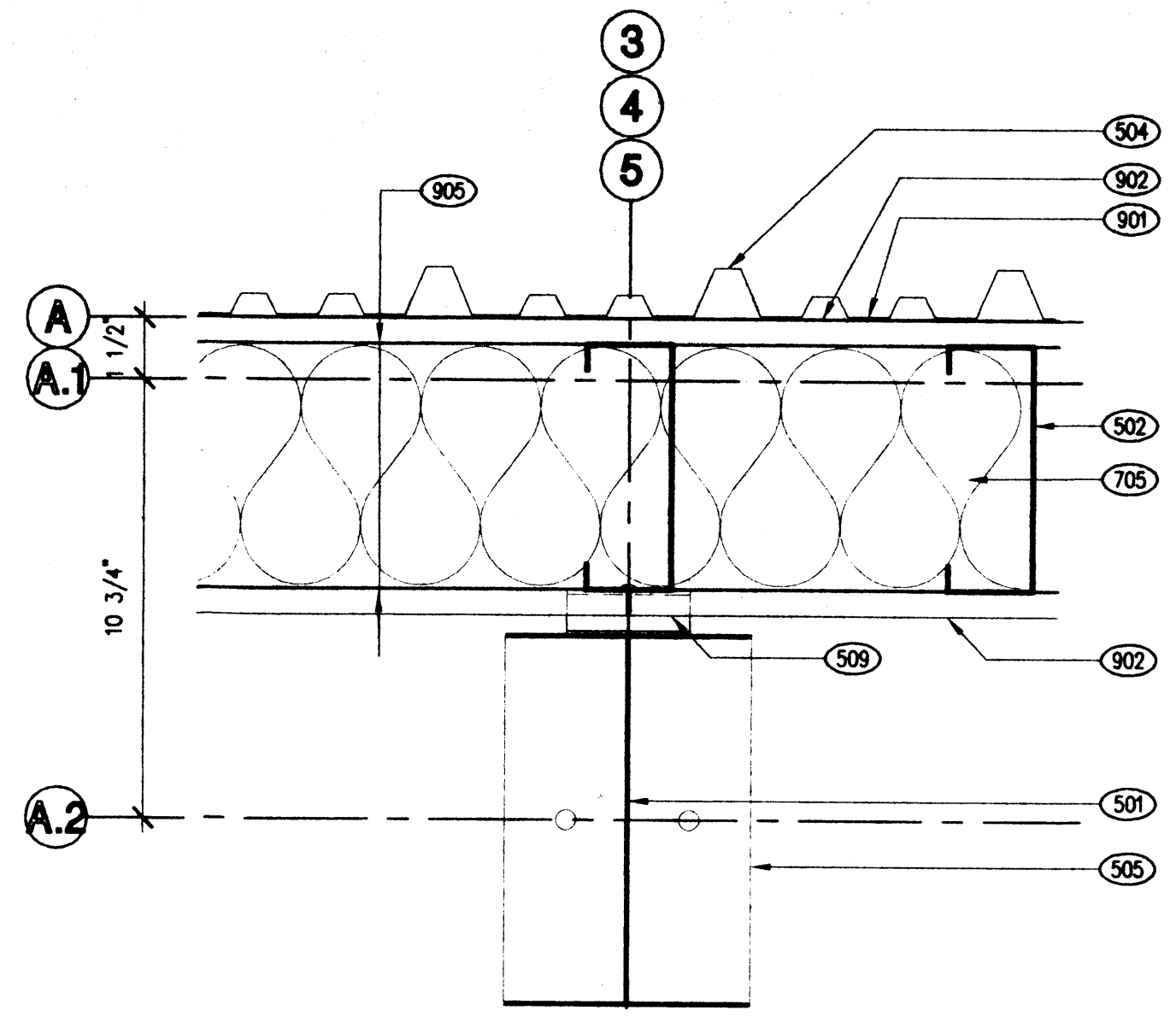
PROJECT ARCHITECT: LEE GAMELSKY, AIA
 PROJECT #:
 DATE: JANUARY, 2001

DOOR SCHEDULE
DOOR/WINDOW DTLS.

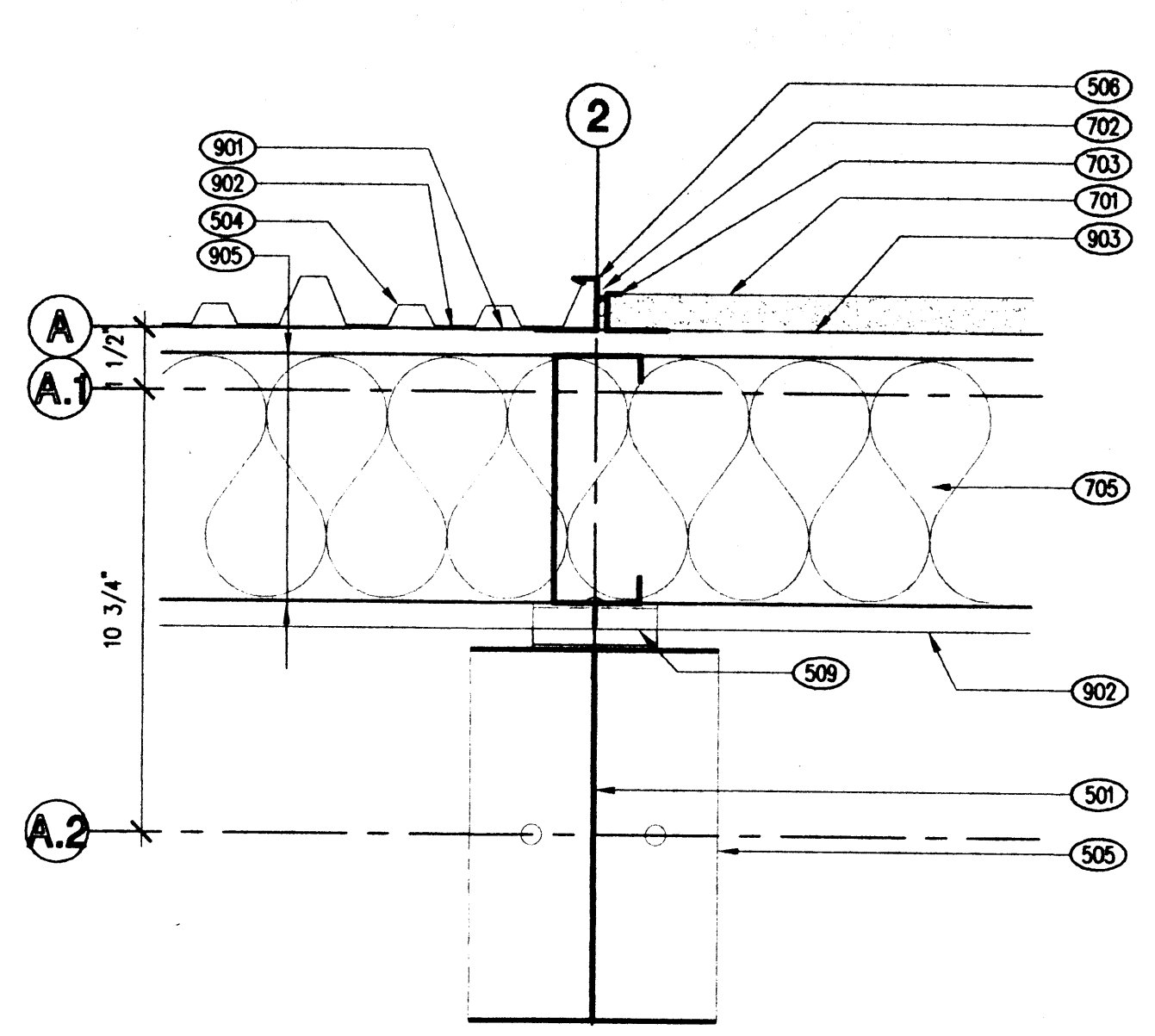
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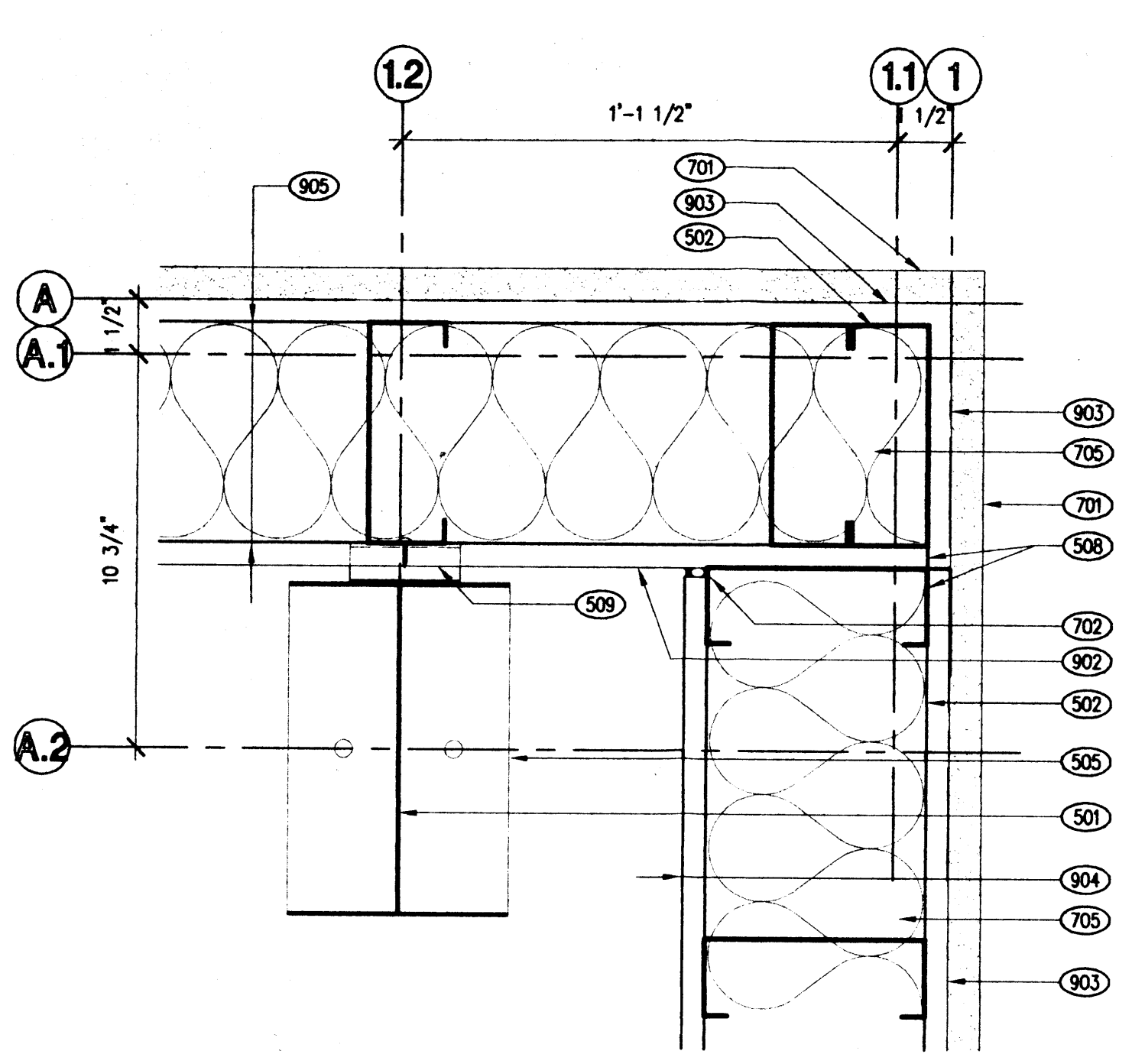
PLAN DETAIL 1 3'-1'-0"



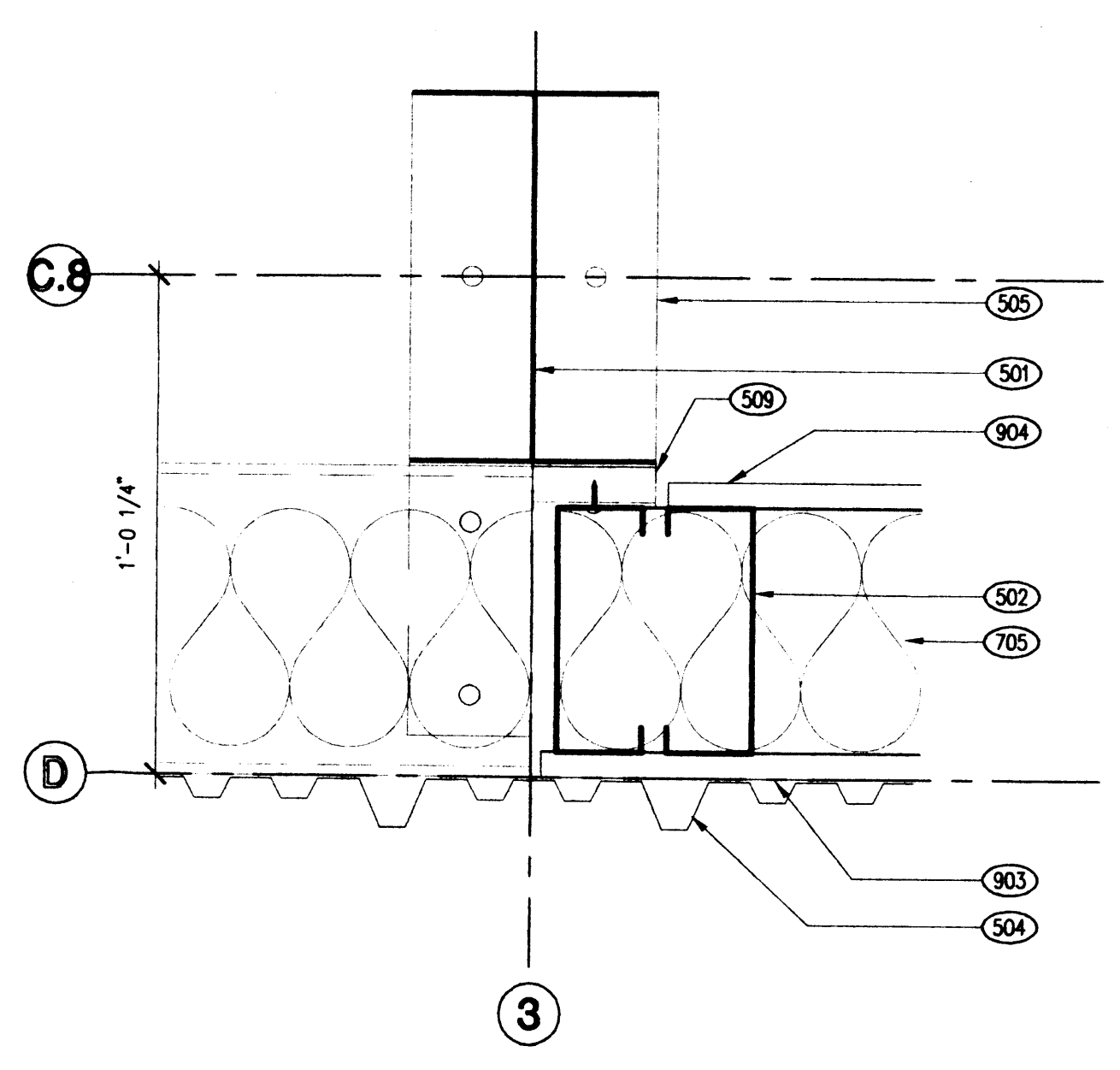
PLAN DETAIL 2 3'-1'-0"



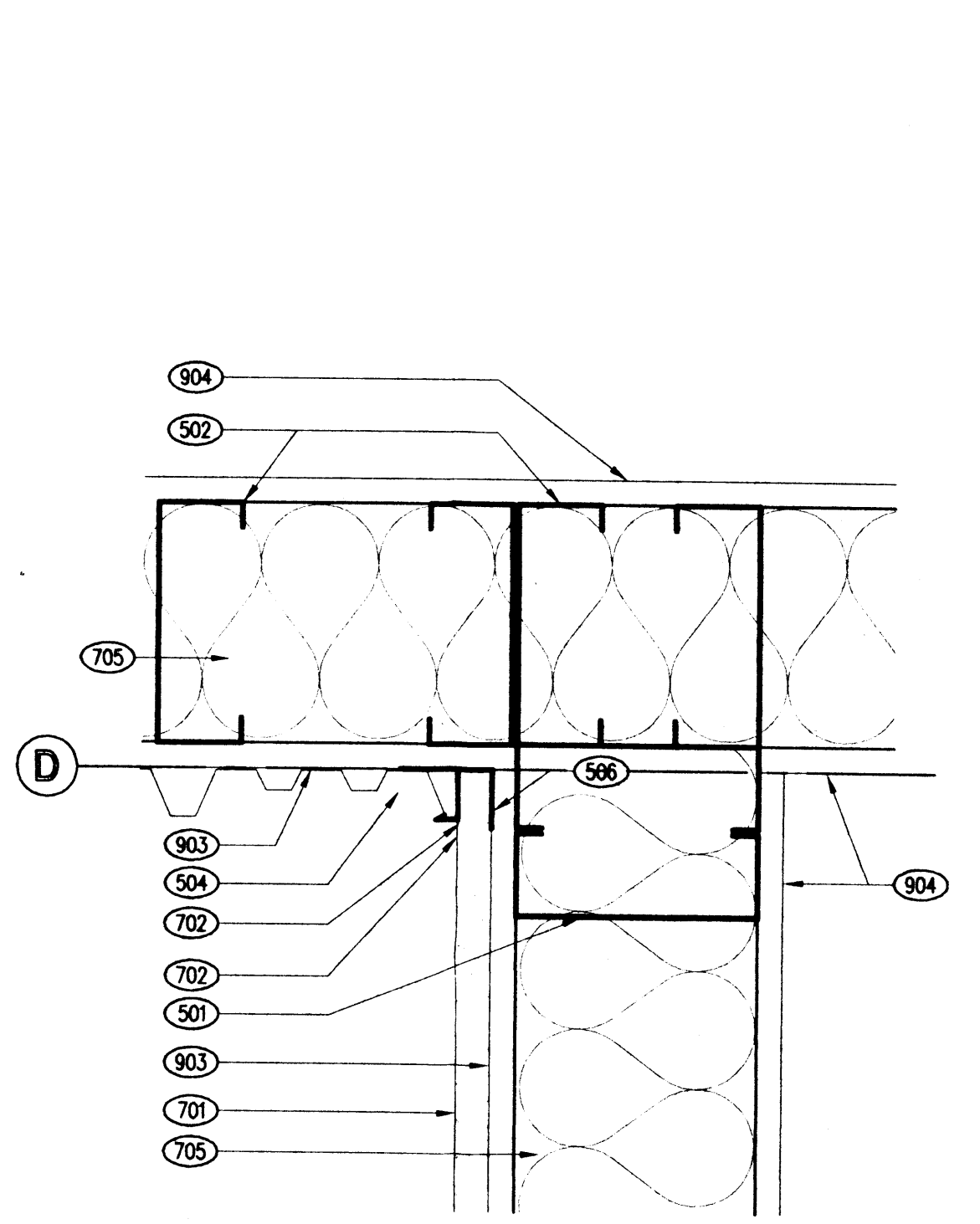
PLAN DETAIL 3 3'-1'-0"



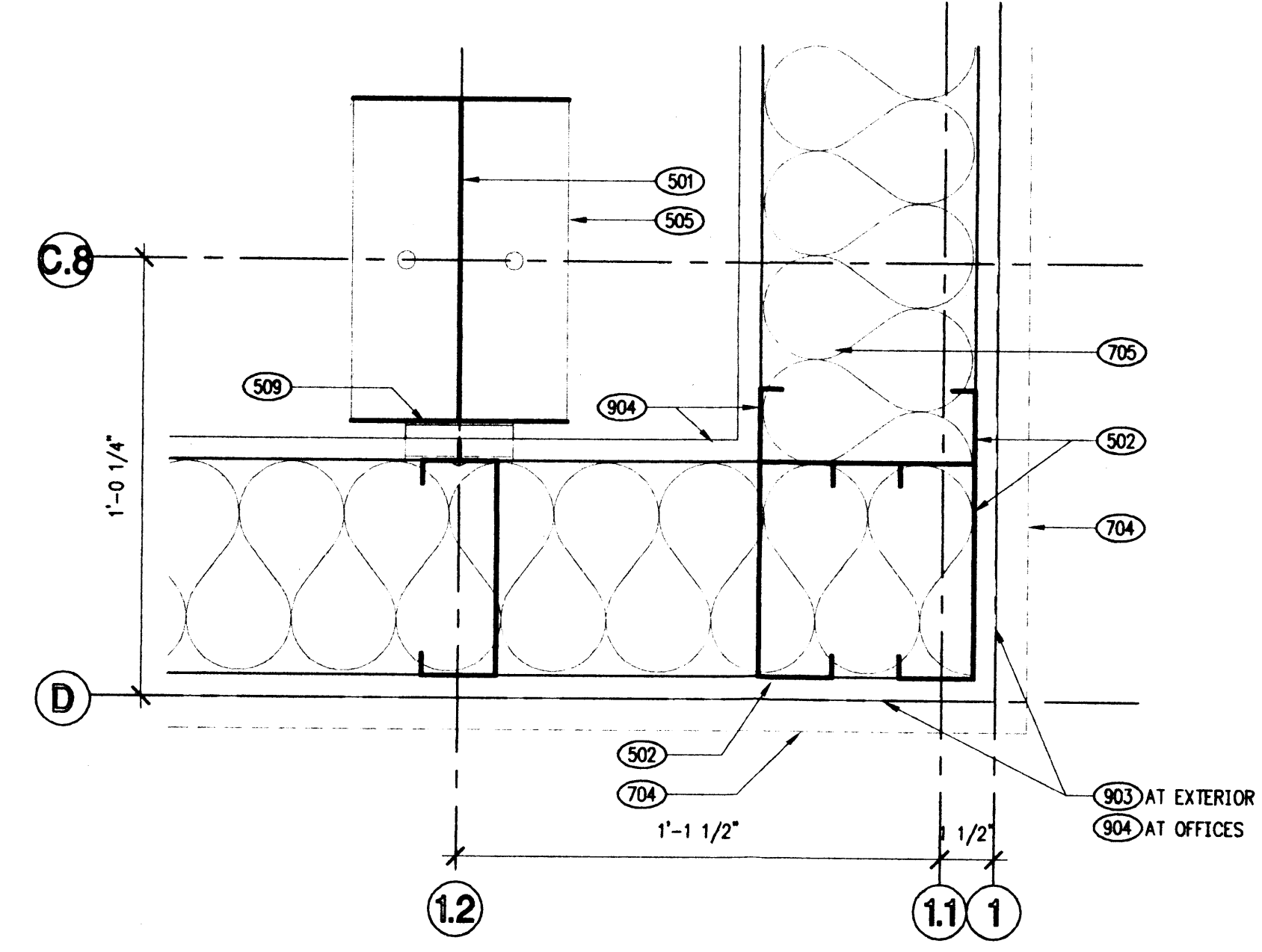
PLAN DETAIL 4 3'-1'-0"



PLAN DETAIL 5 3'-1'-0"



PLAN DETAIL 6 3'-1'-0"



PLAN DETAIL 7 3'-1'-0"

Keyed Notes

- 201 REFERENCE CORNER FOR BUILDING LAYOUT, EDGE OF CONCRETE. - SEE PLANS.
- 501 STEEL COLUMN. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
- 502 6" STEEL STUDS. SEE STRUCTURAL.
- 503 METAL STRAPPING @ 24" O.C.
- 504 METAL WALL PANELS. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
- 505 STEEL BASE PLATE. SEE PRE-ENGINEERED METAL BUILDING SYSTEM PACKAGE.
- 506 METAL TRIM. COORDINATE WITH METAL BUILDING MANUF.
- 507 STEEL ANGLE. BOLT TO STUD AND WELD TO COLUMN @ 48" O.C., TYP.
- 508 STEEL Z CLIP. BOLT TO STUD AND WELD TO COLUMN.
- 701 STUCCO SYSTEM.
- 702 1/4" JOINT WITH BACKER ROD AND SEALANT.
- 703 GALVANIZED STUCCO STOP.
- 704 STUCCO SYSTEM ABOVE ROOF. SEE WALL SECTION 2/A-301.
- 705 R-19 FIBERGLASS BATT INSULATION.
- 901 NO. 15 FELT OVER GYP. BOARD.
- 902 TYPE "X" FIRE RATED GYP. BOARD.
- 903 5/8" EXTERIOR GYP. SHEATHING.
- 904 5/8" GYP. BOARD.
- 905 1 HOUR FIRE RATED WALL. C.A. NO. WP 1200.

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PROJECT ARCHITECT: LEE GAMELSKY, AIA Project #: lga Date: FEBRUARY, 2001

PLAN DETAILS

HVAC REQUIREMENTS

ALL HVAC WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE RECOMMENDATIONS AND THE LOCAL MECHANICAL CODE REQUIREMENTS.

THE HVAC CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS TO THE EXACT LOCATIONS AND SIZES OF ROOF PENETRATIONS.

ALL ELECTRICAL WORK INCLUDING CONNECTIONS TO THE UNITS SHALL BE BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTROL WIRING TO THE THERMOSTATS SHALL BE BY THE HVAC CONTRACTOR.

INSULATE ALL SUPPLY AND RETURN AIR DUCTS WITH 1-1/2" THICK FIBER-GLASS BATT INSULATION WITH VAPOR BARRIER.

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

THE HVAC CONTRACTOR SHALL SUBMIT TO THE OWNER ALL EQUIPMENT INSTALLATION AND OPERATING MANUALS, AND RECOMMENDED PARTS LISTS ON OR BEFORE THE COMPLETION OF THE HVAC WORK.

CALIBRATE, TEST AND ADJUST ALL TEMPERATURE, ELECTRICAL AND CONTROL DEVICES AS REQUIRED BEFORE TEST RUNNING THE HVAC SYSTEM.

ALL THERMOSTATS SHALL BE INSTALLED APPROXIMATELY 4'-6" AFF. VERIFY ACTUAL LOCATIONS WITH ARCHITECTURAL PLANS.

TEST RUN ALL HVAC SYSTEMS FOR AT LEAST THREE 24 HOUR PERIODS IN THE PRESENCE OF THE GENERAL CONTRACTOR BEFORE GIVING NOTICE OF COMPLETION OF THE WORK TO THE OWNER AND BEFORE ACCEPTANCE BY THE OWNER.

ALL REGISTERS AND DUFFUSERS TO HAVE DAMPERS OR EXTRACTORS FOR AIR BALANCE.

ALL DUCT DIMENSIONS ARE CLEAR INSIDE.

CONTRACTOR SHALL FURNISH FOR APPROVAL, SIX COPIES OF SHOP DRAWINGS TO THE ARCHITECT TO COMPLETELY IDENTIFY ALL MATERIALS AND EQUIPMENT TO BE INSTALLED AND USED ON THE PROJECT.

THE EQUIPMENT ROUGH-INS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER IN SOME INSTANCES THE OWNER OR SUPPLIER MAY SUBSTITUTE FOR THE EQUIPMENT ITEM OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELATION DIRECTLY UPON THE CONTRACTOR.

UNLESS NOTED OTHERWISE, GRILLES, REGISTERS, AND DUFFUSERS SHALL BE SUPPLIED WITH FACTORY FINISH IN STANDARD COLORS SELECTED BY THE ARCHITECT. SIZES SHALL BE NOTED ON THE DRAWINGS AND AS SCHEDULED.

INSULATION SHALL BE AS MANUFACTURED BY JOHNS-MANVILLE, DVENSCORNING, PITTSBURGH PLATE GLASS CO., PHILIP CAREY MANUFACTURING CO., OR CERTAIN-TEED ST. GOBAIN CO. OR APPROVED EQUAL.

INSULATION SHALL BE APPLIED WITH ALL JOINTS CAREFULLY FITTED TO ELIMINATE VOIDS.

FLEXIBLE DUCTING SHALL BE AS MANUFACTURED BY WIREMOLD FLEXIBLE TUBING CORP. OR APPROVED EQUAL.

ALL DUCTS SHALL BE FIRMLY SUPPORTED OR HUNG AND NEATLY ALIGNED AND INSTALLED. SPACE HANGERS AS REQUIRED TO SUPPORT THE DUCTS WITHOUT SAGGING. LOCATION AND SPACING OF HANGERS AND SUPPORTS SHALL BE COORDINATED BY THE CONTRACTOR. FURNISH AND INSTALL ALL NECESSARY SUPPORTING MATERIALS AND ADDITIONAL STRUCTURAL MEMBERS. SEAL OPEN SPACE BETWEEN DUCTS AND WALL. COORDINATE DUCTWORK WITH LIGHTING FIXTURES, CEILING SUPPORT SYSTEMS, ACCESS DOORS, ETC.

MAXIMUM LENGTH OF FLEXIBLE DUCTING SHALL BE 8'.

INSTALL TURNING VANES IN ALL RECTANGULAR DUCTWORK AT CHANGES IN DIRECTION OF GREATER THAN 45 DEGREES.

SPECIFIC NOTES

- ① DROP SUPPLY AIR DUCT DOWN FROM UNIT OUTLET CONNECTION INTO CEILING SPACE, TRANSITION TO 14" DIA. AND ROUTE AS SHOWN.
- ② DROP RETURN AIR DUCT FROM UNIT INLET CONNECTION DOWN INTO CEILING SPACE, TRANSITION TO 14" DIA. AND ROUTE AS SHOWN.
- ③ STUB 14" DIA. RETURN AIR DUCT INTO CEILING SPACE.
- ④ 24" X 24" RA IN CEILING WITH SOUND TRAP.
- ⑤ 4" DIA. EXHAUST DUCT UP THRU ROOF TO WEATHER CAP.
- ⑥ 10" DIA. FLUE WITH 14" DIA. LOCAL VENT UP THRU ROOF TO WEATHER CAP.

EQUIPMENT SCHEDULE

- ① ROOFTOP UNIT: SELF CONTAINED UNIT WITH GAS FIRED HEATING AND ELECTRIC POWERED REFRIGERATED AIR COOLING. THE UNIT SHALL BE COMPLETELY FACTORY ASSEMBLED, TESTED AND CHARGED. THE COMPRESSOR SHALL BE HERMETIC TYPE WITH CRANKCASE HEATER, OVERLOAD PROTECTION, HIGH AND LOW PRESSURE PROTECTION, AND A FIVE YEAR WARRANTY. THE CONDENSER SECTION SHALL HAVE ALUMINUM FINS BONDED TO SEAMLESS COPPER TUBES. THE CONDENSER FAN SHALL BE DIRECT DRIVEN PROPELLER TYPE AND SHALL BE MOUNTED ON VIBRATION ISOLATORS. THE EVAPORATOR COIL SHALL HAVE ALUMINUM FINS BONDED TO SEAMLESS COPPER TUBES. THE EVAPORATOR FAN SHALL BE CENTRIFUGAL TYPE WITH FORWARD CURVED BLADES AND SHALL BE MOUNTED ON VIBRATION ISOLATORS. THE GAS HEATING SECTION SHALL BE AGRATED AND APPROVED, WITH FULL SAFETY CONTROLS, ELECTRIC HOT SURFACE IGNITION SYSTEM, HIGH LIMIT CONTROLS AND SHALL BE ORIFED FOR 5000' ELEVATION. PROVIDE THE UNIT WITH 1" THICK THROWAWAY FILTERS, ROOF CURB AND THERMOSTAT WITH LOCKING COVER. RATINGS ARE AT 95 DEG F. AMBIENT TEMPERATURE AND 67 DEG F. WBW TEMPERATURE. MODEL NUMBERS ARE CARRIER 48G5.

SYMBOL	MODEL	TOTAL COOLING	SENS. COOLING	HEAT INPUT	HEAT OUTPUT
1	030060	28,800	20,700	60,000	47,000

SYMBOL	CFM	ESP	VOLTS	PH	MCA	WEIGHT
1	1000	.5"	208/230	1	20.8	300

- ② EXHAUST FAN: CEILING MOUNTED, DIRECT DRIVEN, CENTRIFUGAL TYPE EXHAUST FAN WITH BACKDRAFT DAMPER AND INLET GRILLE. MODEL NUMBERS ARE GREENHECK.

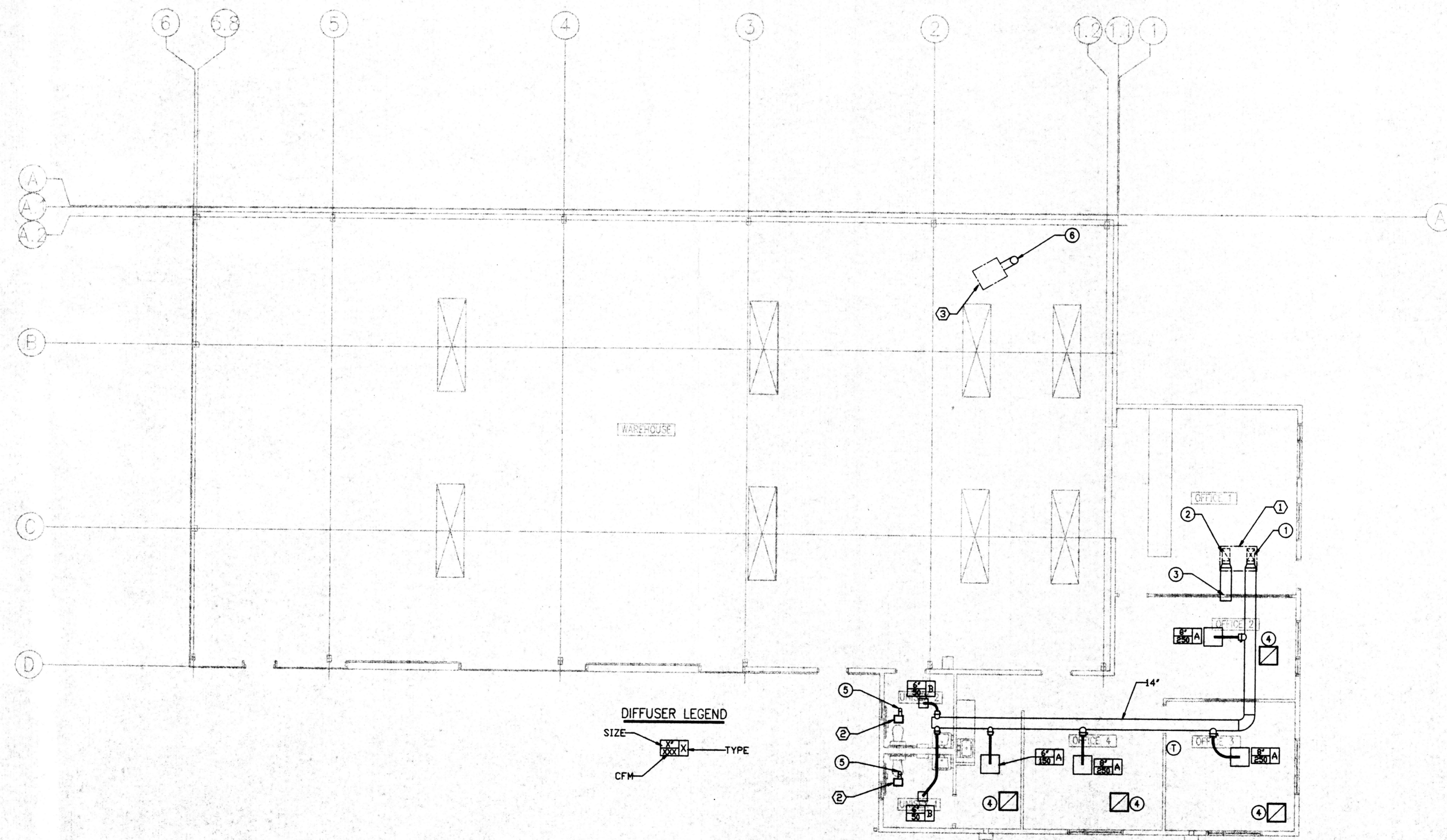
SYMBOL	MODEL	CFM	ESP	VOLTS	PH	WATTS	SONES
2	SP-7	110	.125"	115	1	80	2.2

- ③ UNIT HEATER: HORIZONTAL DISCHARGE TYPE, NATURAL GAS FIRED UNIT HEATER WITH ADJUSTABLE LOUVERS, ALUMINIZED STEEL HEAT EXCHANGER, FAN GUARD AND DIRECT DRIVEN PROPELLER TYPE FAN. THE UNIT SHALL BE AGRATED WITH COMPLETE CONTROLS, GAS TRAIN, ELECTRIC SPARK IGNITION, TRANSFORMER AND THERMOSTAT. THE UNIT SHALL BE ORIFED FOR 5000' ELEVATION. MODEL NUMBERS ARE REZTOR.

SYMBOL	MODEL	BTUH	CFM	VOLTS	PH	HP	WEIGHT
3	F-250	250,000	3360	115	1	1/6	250

DIFFUSER SCHEDULE

TYPE	MAKE & MODEL	COMMENTS
A	KRUEGER 1400	24" X 24" PANEL
B	KRUEGER 1400	12" X 12" PANEL
RA	KRUEGER EGCS	



MECHANICAL PLAN

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PROFESSIONAL ENGINEER
 TERRY L. WALKER
 No. 5209
 2/17/01

MEEDER EQUIPMENT CO.
 WAREHOUSE FACILITY
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PROJECT ARCHITECT: LEE GAMELSKY, AIA
 Project #: 1999
 Date: JANUARY, 2001

PLUMBING PLAN

By: TLW
 File: Sheet of M1

PLUMBING REQUIREMENTS

ALL PLUMBING WORK AND MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF THE LOCAL PLUMBING CODE.

UNDERFLOOR/BELOW GRADE WASTE PIPING SHALL BE CAST IRON EXCEPT THAT PVC OR ABS PIPING MAY BE USED WHERE PERMITTED BY APPLICABLE CODES.

VENT PIPING SHALL BE CAST IRON OR STEEL EXCEPT THAT PVC OR ABS PIPING MAY BE USED WHERE PERMITTED BY APPLICABLE CODES.

WATER PIPING BELOW SLAB SHALL BE TYPE "L" SOFT COPPER.

COLD WATER PIPING ABOVE CEILING SHALL BE INSULATED WITH 1" THICK FIBERGLAS PIPE INSULATION WITH VAPOR BARRIER.

ALL WATER PIPING ABOVE GRADE SHALL BE TYPE "M" HARD COPPER.

ALL HOT WATER PIPING SHALL HAVE 1-1/2" THICK FIBERGLAS INSULATION.

INSTALL SHUT-OFF GATE VALVE AND UNION TO ALL EQUIPMENT SUPPLY LINES. VERIFY METERING AND SERVICE CONNECTIONS WITH LOCAL UTILITY COMPANIES.

PITCH ALL DRAINS 1/4" PER FOOT WHERE POSSIBLE.

ALL PIPING SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

ALL ELEVATIONS SHALL BE VERIFIED AT THE JOB SITE.

PLUMBING CONTRACTOR SHALL PAY ALL FEES, PERMITS AND CHARGES IN CONNECTION WITH THIS WORK.

THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND ROUGH-IN REQUIREMENTS PRIOR TO CONSTRUCTION.

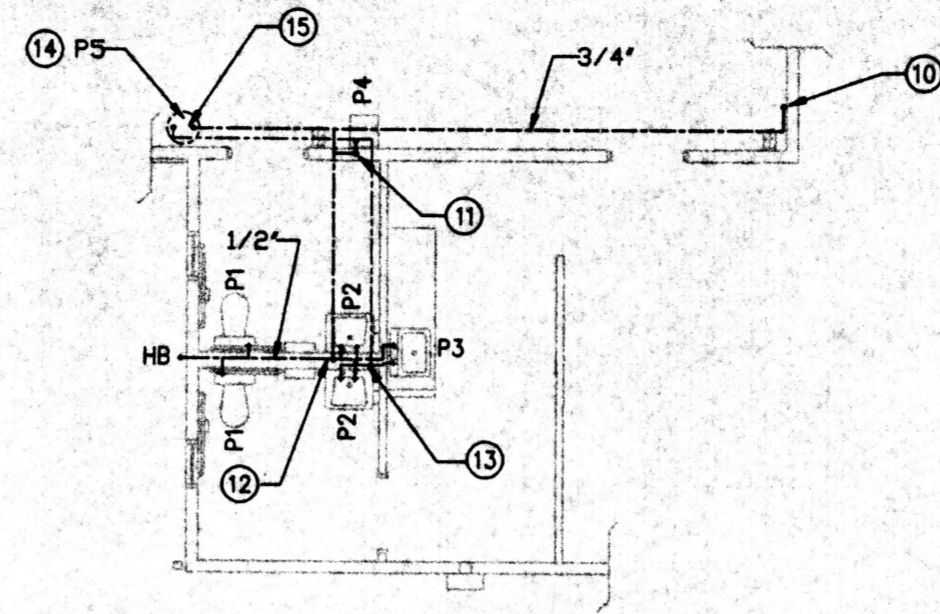
THE CONTRACTOR SHALL SUPPLY FOR APPROVAL, SIX COPIES OF SHOP DRAWINGS AND/OR MANUFACTURER'S DESCRIPTIVE DATA OF A NATURE TO COMPLETELY IDENTIFY THE MATERIAL OR EQUIPMENT TO BE INSTALLED.

ALL WATER PIPING SHALL BE RUN ON THE HEATED SIDE OF BUILDING INSULATION. PROVIDE RIDGID "TENT" OVER PIPING IN CEILING SPACE.

KITCHEN AND LAUNDRY EQUIPMENT SHALL BE INSTALLED BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO THIS EQUIPMENT.

FIXTURE SCHEDULE

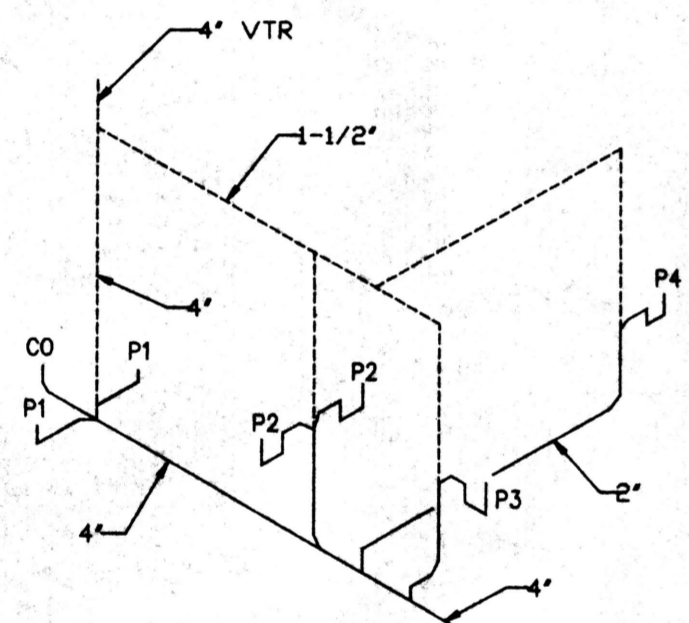
- P1 WATER CLOSET: TOTO MODEL CST 704L, VITREOUS CHINA, FLOOR MOUNTED, 17" RM HEIGHT, ELONGATED BOWL, 1.6 GALLON PER FLUSH, WITH OPEN FRONT PLASTIC SEAT. 4" WASTE, 2" MINIMUM VENT, 1/2" CW.
- P2 LAVATORY: AMERICAN STANDARD NO. 0124.024, VITREOUS CHINA, WALL MOUNTED, WITH NO. 5401.172 FAUCET. INSULATE HW AND WASTE PER ADA STANDARDS. 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW, 1/2" HW.
- P3 SINK: JUS model SL-2019-A-QR, STAINLESS STEEL SELF RIMMING, WITH NO. J-1174-KS FAUCET AND J-35 OUTLET STRAINER. 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW, 1/2" HW.
- P4 DRINKING FOUNTAIN: ELKAY MODEL EDF-14-C, WALL MOUNTED, BARRIER FREE, WITH FRONT PUSH BAR. 1-1/2" WASTE, 1-1/2" VENT, 1/2" CW.
- P5 WATER HEATER: AO SMITH MODEL EES-30, 30 GALLON STORAGE CAPACITY, WITH GLASS LINED TANK, ANODE ROD, AND T & P RELIEF VALVE. 240V, 1 PH, (2) NON SIMULTANEOUS 4500 WATT ELEMENTS.
- HB HOSE BIB: WOODFORD MODEL 14, FREEZEPROOF WITH VACUUM BREAKER.



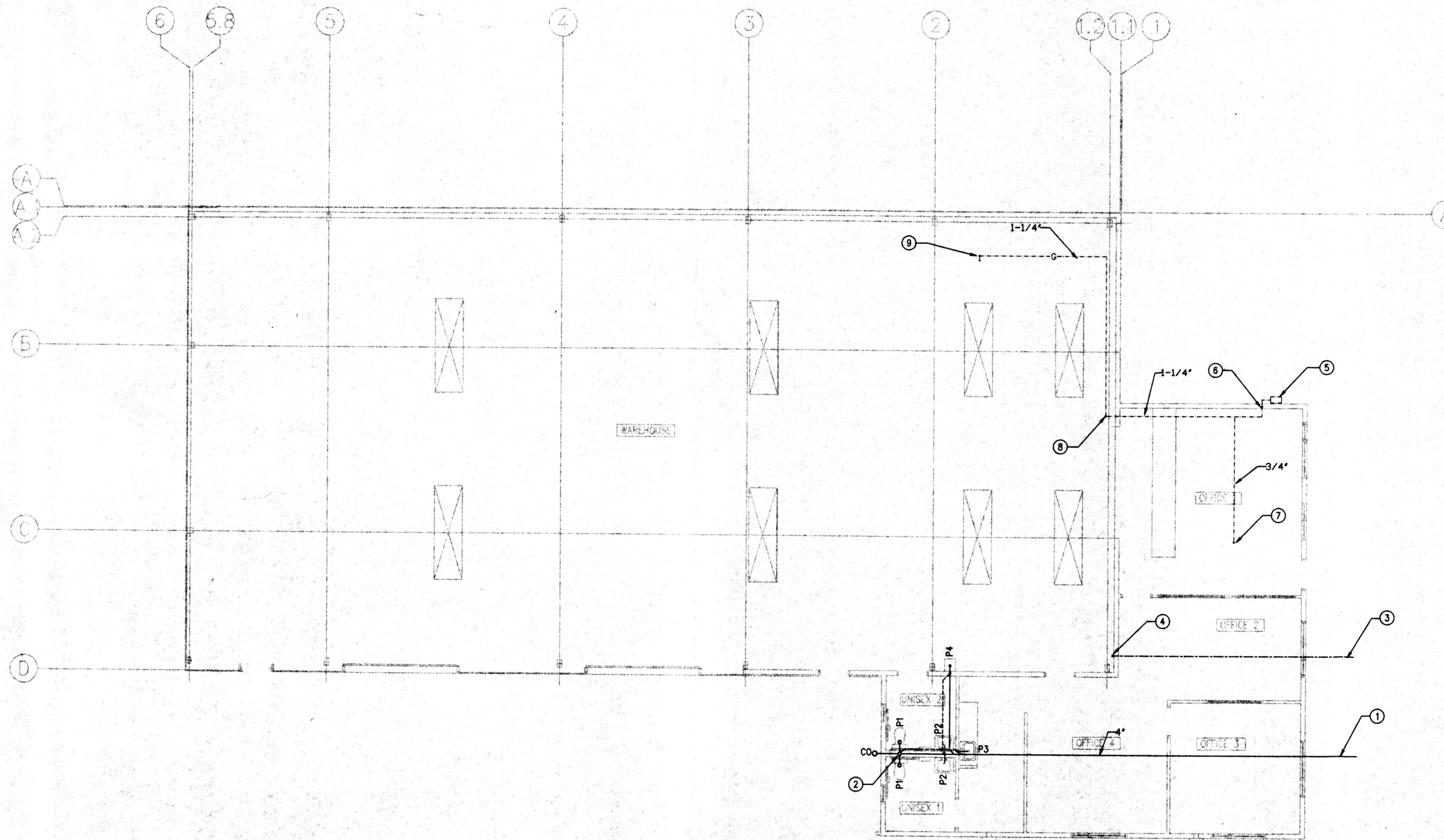
PARTIAL WATER PIPING PLAN

SPECIFIC NOTES

- ① 4" WASTE LINE TO SITE SEWER AND CONNECT. VERIFY LOCATION.
- ② 4" VTR.
- ③ 3/4" CW TO WATER METER AT STREET AND CONNECT. VERIFY LOCATION.
- ④ 3/4" CW UP FROM BELOW GRADE AND EXTEND UP TO 10' AFF. INSTALL SHUT-OFF VALVE AT 6" AFF. SEE PARTIAL WATER PIPING PLAN FOR CONTINUATION.
- ⑤ GAS METER AND PRESSURE REGULATOR. SIZE UNIT FOR A TOTAL CONNECTED LOAD OF 310,000 BTUH WITH A MINIMUM OUTLET PRESSURE OF 7" W.C.
- ⑥ 1-1/4" GASLINE UP IN WALL INTO CEILING SPACE.
- ⑦ 3/4" GAS LINE UP THRU ROOF AND CONNECT TO HVAC UNIT WITH SHUT-OFF VALVE AND FLEX CONNECTION.
- ⑧ 1-1/4" GAS LINE THRU WALL AND UP TO ROOF LEVEL.
- ⑨ GAS LINE TO UNIT HEATER AND CONNECT WITH SHUT-OFF VALVE, DIRT LEG AND FLEX CONNECTION.
- ⑩ 3/4" CW DOWN ALONG WALL AT 10' AFF. SEE PLUMBING PLAN FOR CONTINUATION.
- ⑪ 1/2" CW DOWN IN WALL TO FIXTURE AND CONNECT.
- ⑫ 3/4" CW DOWN IN WALL AND ROUTE TO FIXTURES AS SHOWN.
- ⑬ 3/4" HW DOWN IN WALL AND ROUTE TO FIXTURES AS SHOWN.
- ⑭ FLOOR MOUNTED WATER HEATER. ROUTE T & P RELIEF LINE TO OUTSIDE.
- ⑮ 3/4" CW WITH SHUT-OFF VALVE AND FLEX CONNECTION AND 3/4" HW WITH FLEX CONNECTION TO WATER HEATER.



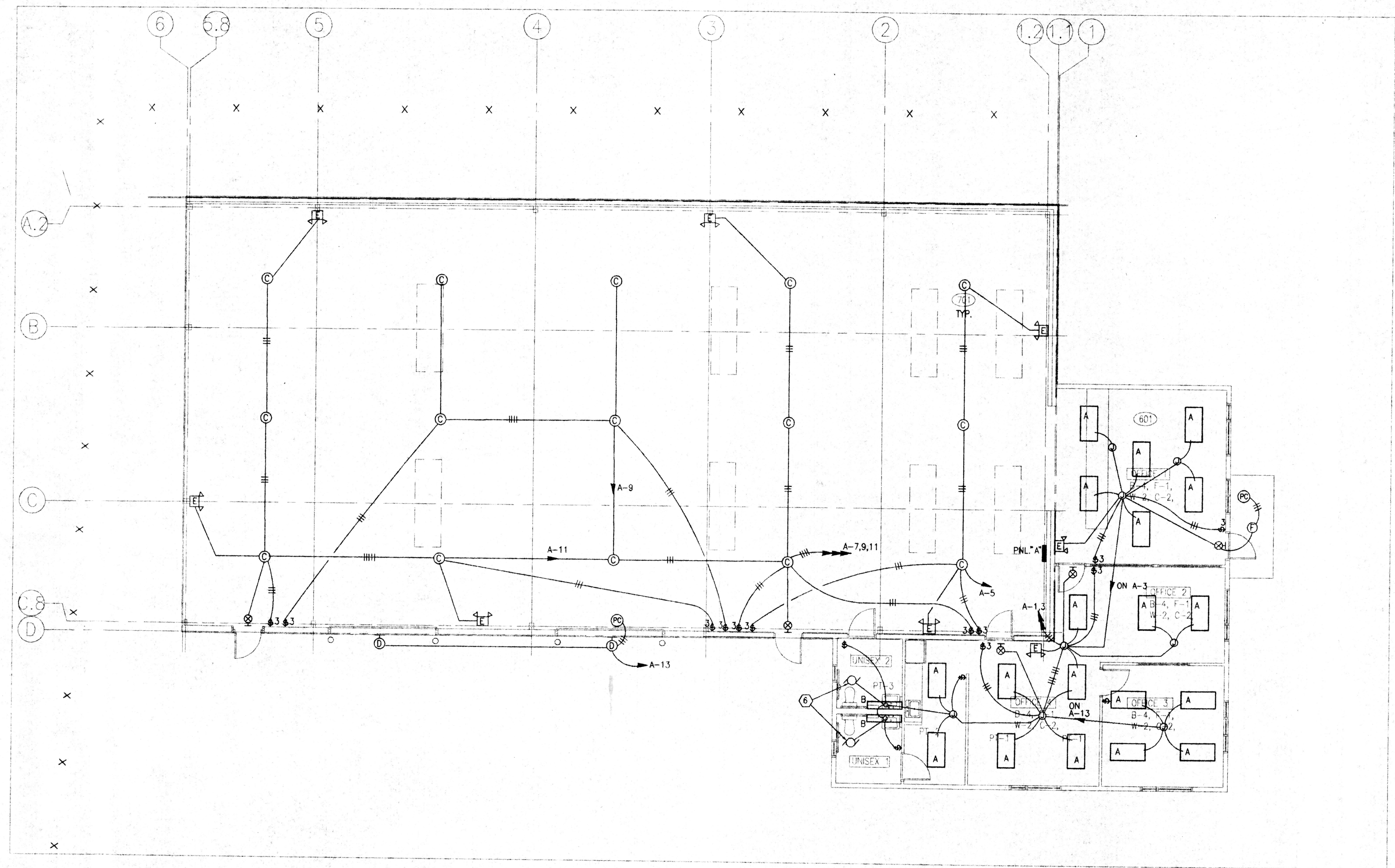
WASTE PIPING SCHEMATIC
NO SCALE



PLUMBING PLAN

1/8" = 1'-0"

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MEEDER EQUIPMENT CO. WAREHOUSE FACILITY ALBUQUERQUE, NM		Project #: _____ Date: JANUARY, 2001
PROJECT ARCHITECT: LEE GAMELSKY, AIA		PLUMBING PLAN
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LIGHTING PLAN

TYPE	DESCRIPTION	LAMPS	MOUNTING	REMARKS
A	LITHONIA #2SP8G332/A12125/120/CEB10	3-F32T8/TL835	RECESSED-GRID	
B	LITHONIA #WP232D0120GEB10	2-F32T8/TL835	SURFACE-WALL TOP AT CEILING	
C	LITHONIA #TXC400MA23TB	1-400W MH	PENDANT BOTTOM AT BOTTOM OF TRUSS	
D	LITHONIA #TWH250MTB	1-250W MH	SURFACE-WALL UP 16'-0" A.F.F.	
E	LITHONIA #ELM4-SD	FURNISHED W/ UNIT	SURFACE-WALL UP 7'-6" TO BOTTOM	EMERGENCY LIGHTING UNIT W/ BATTERY PACK
F	LITHONIA #VR4C100MTB	1-100W MH	SURFACE-CEILING	ROUGH SERVICE DAMP LOCATION
⊗	LITHONIA #LES1G/120/ELNSD	FURNISHED W/ UNIT	SURFACE-WALL UP 6" ABOVE TOP OF DOOR	EMERGENCY EXIT UNIT W/ BATTERY PACK

ELECTRICAL SYMBOL LEGEND	
○	FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES FIXTURE TYPE
○	LIGHTING FIXTURE, CEILING MOUNT. LETTER DENOTES FIXTURE TYPE
○	LIGHTING FIXTURE, WALL MOUNT. LETTER DENOTES FIXTURE TYPE
⊙	JUNCTION BOX, SIZE AS REQUIRED
⊗	EXIT LIGHT, SEC FIXTURE SCHEDULE FOR TYPE
⊞	EMERGENCY LIGHTING FIXTURE
⊞	SINGLE POLE TOGGLE SWITCH, UP 48" TO TOP
⊞	THREE WAY TOGGLE SWITCH, UP 48" TO TOP
⊞	MANUAL MOTOR SWITCH
⊞	DUPLEX RECEPTACLE, UP 18"
⊞	DUPLEX RECEPTACLE, UP 18"
⊞	TELEPHONE/DATA OUTLET
⊞	PANELBOARD
⊞	DISCONNECT SWITCH AS SPECIFIED
⊞	CONDUIT RUN CONCEALED IN CEILING OR WALLS
⊞	CONDUIT RUN CONCEALED IN WALLS OR FLOOR
⊞	ALARM SYSTEM WIRING
⊞	HOMERUN TO PANELBOARD, CCTS #1 & 3
⊞	ELECTRICAL KEYED NOTE REFERENCE
⊞	PHOTOCELL, INTERMATIC #K4221

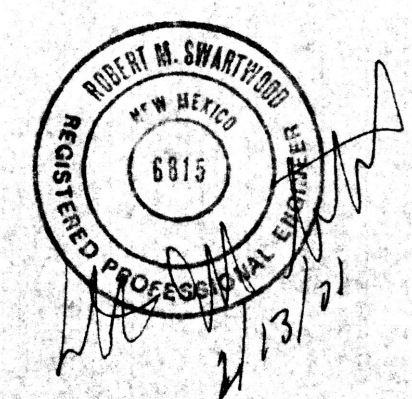
General Notes & Specifications

- A. THE INSTALLATION SHALL COMPLY W/ ALL LOCAL AND STATE LAWS APPLYING TO ELECTRICAL INSTALLATIONS AND WITH THE REGULATIONS OF THE LATEST ISSUE OF THE NATIONAL ELECTRICAL CODE, WHICH WILL BE CONSIDERED AS MINIMUM REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED BY THE LOCAL AUTHORITIES. UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE ARCHITECT A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE LOCAL ELECTRICAL INSPECTION DEPARTMENT.
- B. ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.
- C. ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC), OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE W/ THE NEC. CONDUIT INSTALLED UNDERGROUND IN CONTACT WITH EARTH OR FILL SHALL BE SCHEDULE 40 PVC CONDUIT WITH SCHEDULE 80 PVC COATED ELBOWS. EMT OR ALUMINUM CONDUIT WILL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE - 1/2". A #9 PULLWIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT. ENT IS ALSO ACCEPTABLE.
- D. ALL EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE, INDENTER OR SET-SCREW TYPE COUPLINGS AND CONNECTORS SHALL NOT BE USED.
- E. ALL OUTLET BOXES SHALL BE WELDED OR DEEP DRAWN ONE-PIECE STEEL. SECTIONAL BOXES SHALL NOT BE USED.
- F. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM SIZE, THWN INSULATION UNLESS NOTED OTHERWISE AND SHALL BE COLOR CODED AS FOLLOWS: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, NEUTRAL - WHITE, EQUIP. GROUND - GREEN. INCREASE WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' - #10 AWG, OVER 100' - #8 AWG.
- G. THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING SHALL COMPLY WITH ALL THE REQUIREMENTS THAT APPLY TO THIS PROJECT IN ARTICLE 250 OF THE NEC. ENT SHALL REQUIRE A SEPARATE GROUND CONDUCTOR.
- H. FOR EXACT LOCATIONS OF ALL MECHANICAL AND/OR PLUMBING EQUIPMENT, OWNER FURNISHED EQUIPMENT, ETC. REFER TO THE RESPECTIVE DRAWINGS AND COORDINATE FINAL LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
- I. SHOP DRAWINGS SHALL BE SUBMITTED FOR PANELBOARDS, LIGHTING FIXTURES, ETC. SUBMIT SEVEN (7) COPIES OF ALL SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR APPROVAL.
- J. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE EFFECTIVE DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. IN THE EVENT DEFECTS APPEAR DURING THIS PERIOD, THE CONTRACTOR SHALL IMMEDIATELY UPON RECEIPT OF NOTICE, MAKE ALL NECESSARY ADJUSTMENTS, REPAIRS AND/OR REPLACEMENTS WITHOUT CHARGE.

Keyed Notes

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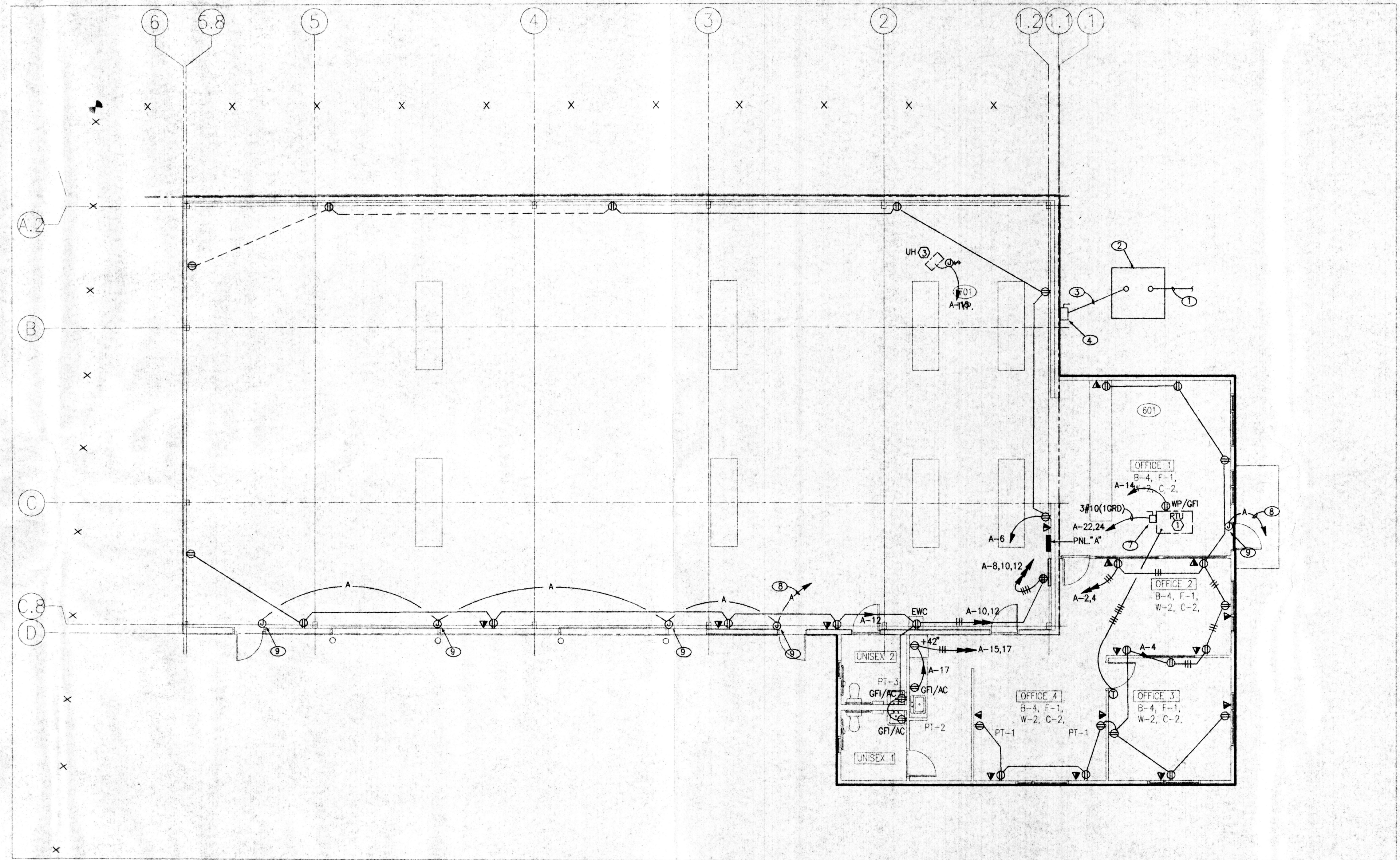
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LIGHTING PLAN

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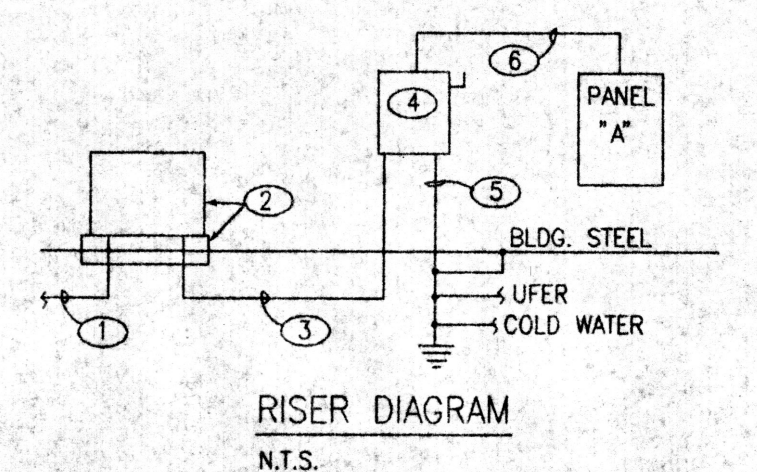


POWER PLAN

1/8"=1'-0"

Keyed Notes

- ① 4" C. FOR PNM PRIMARY (2 IF LOOP FEED), EXTEND TO LOCATION DETERMINED IN THE FIELD WITH PNM ENGINEER.
- ② TRANSFORMER AND PAD WITH METERING ENCLOSURE ON TRANSFORMER SIDE AS PER PNM REQUIREMENTS.
- ③ 3 #1/0 THWN2-CU-11/2" C.
- ④ SAFETY SWITCH, 200 AMP, 2 POLE, 3 WIRE, S/N, 250 VOLT, FUSIBLE, CLASS "R" FUSE CLIPS, NEMA 3R ENCLOSURE, SWITCHABLE AS "SERVICE EQUIPMENT", WITH LITTELFUSE #LLN-RK-150 FUSES.
- ⑤ #6 GROUND CONDUCTOR TO GROUNDING ELECTRODES, UFER, COLD WATER PIPE, BUILDING STEEL AND IF REQUIRED, DRIVEN GROUND RODS ALL AS PER ARTICLE 250 OF THE NEC AND LOCAL CODES.
- ⑥ #3/0 THWN2-CU AND 1 #2 CU GRD - 11/2" C.
- ⑦ SAFETY SWITCH, 30 AMP, 2 POLE, 2 WIRE, 250 VOLT, NON-FUSIBLE, NEMA 3R ENCLOSURE.
- ⑧ TO ALARM/SECURITY SYSTEM CONTROL PANEL (TO BE LOCATED AS DIRECTED BY THE OWNER).
- ⑨ FOR SECURITY SYSTEM DOOR CONTACTS AS REQUIRED BY THE SECURITY SYSTEM MANUFACTURER. EXACT LOCATION OF ALL J-BOXES BY SYSTEM MANUFACTURER.



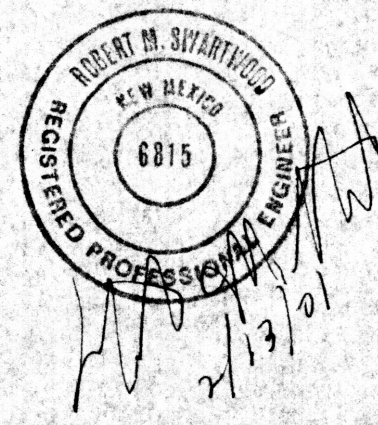
SERVICE CHARACTERISTICS
120/240 VOLT, 1 PHASE, 3 WIRE

CONNECTED LOAD = 25 KW
ESTIMATED DEMAND LOAD = 20 KW
TRANSFORMER SIZE REQUIRED = 25 KVA
AVAILABLE FAULT CURRENT AT TRANSFORMER SECONDARIES = LESS THAN 10,000 AC

PANEL "A" DESCRIPTION: SQUARE D, "NOOD", 120/240 VOLT, 1 PHASE, 3 WIRE, 225 AMP MLO, 10000 AIC MIN. BREAKERS, SURFACE MOUNT, COPPER BUSSES

CIRCUIT	AMPS		BR TR	CT NO	CT NO	BR TR	AMPS		CIRCUIT
	A	B					A	B	
LIGHTS - OFFICE	10			1	A	2			RECEIPTS - OFFICE
- OFFICE		9		2	B	4			- OFFICE
- WAREHOUSE	12			3	A	6			- WAREHOUSE
		16		7	B	8			- TELE. BO.
	16			8	A	10			- EWC & 2 GFI
		16		11	B	12			- WAREHOUSE
- EXTERIOR	7			13	A	14			- ROOF
UNIT HEATER (3)		2		15	B	16			SECURITY SYSTEM
SPARE				17	A	19			SPARE
				19	B	20	20		ROOF TOP UNIT (1)
				21	A	22	20		SPACE
				23	B	24	30		
				25	A	26			
				27	B	28			
				29	A	30			
				31	B	32			
				33	A	34			
				35	B	36			

CONNECTED LOAD: $\beta A = 108A$ $\beta B = 101A$ DEMAND = 108 AMPS X 80% = 86 AMPS



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POWER PLAN